

FIG. 1

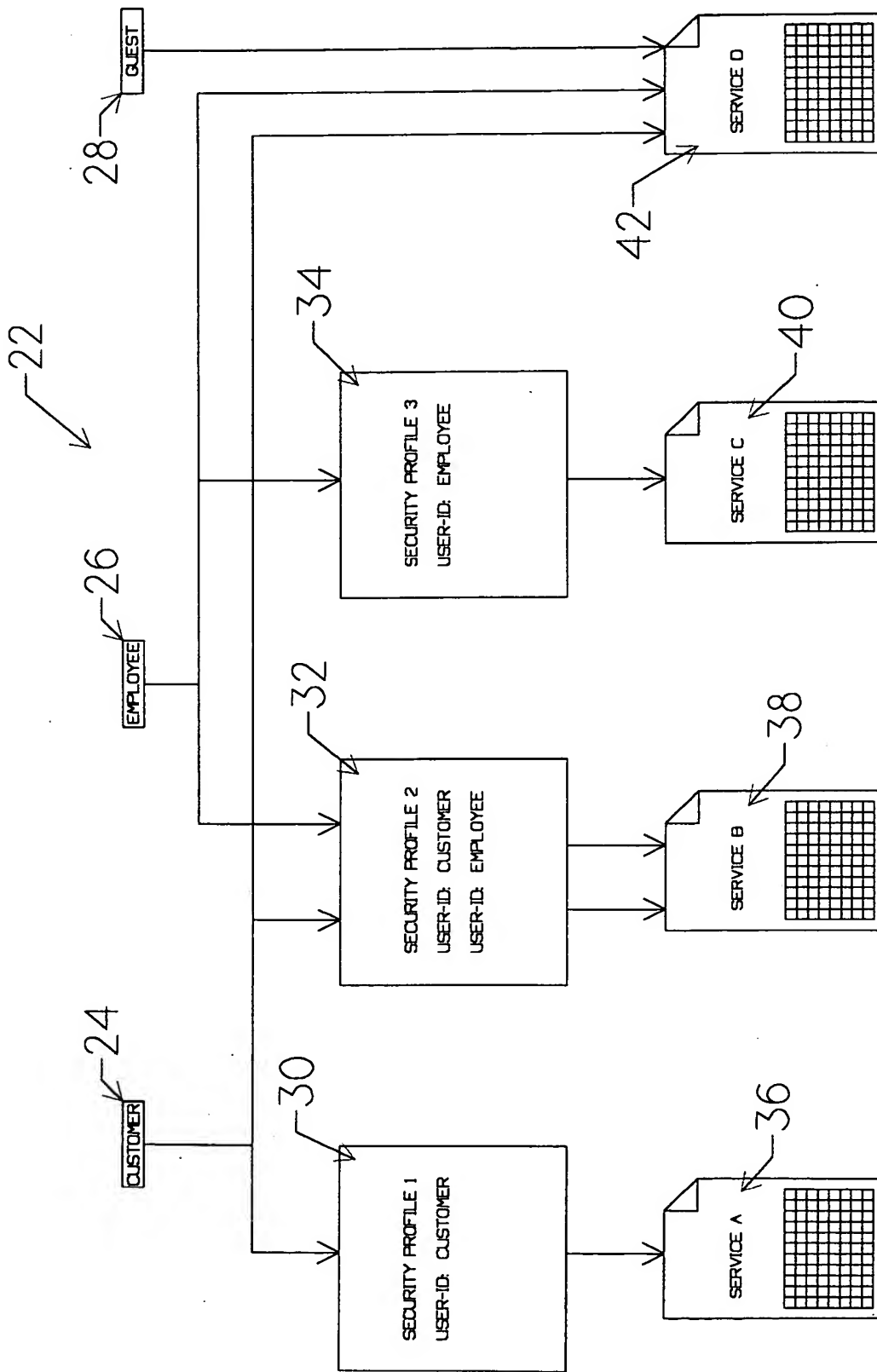


FIG. 2

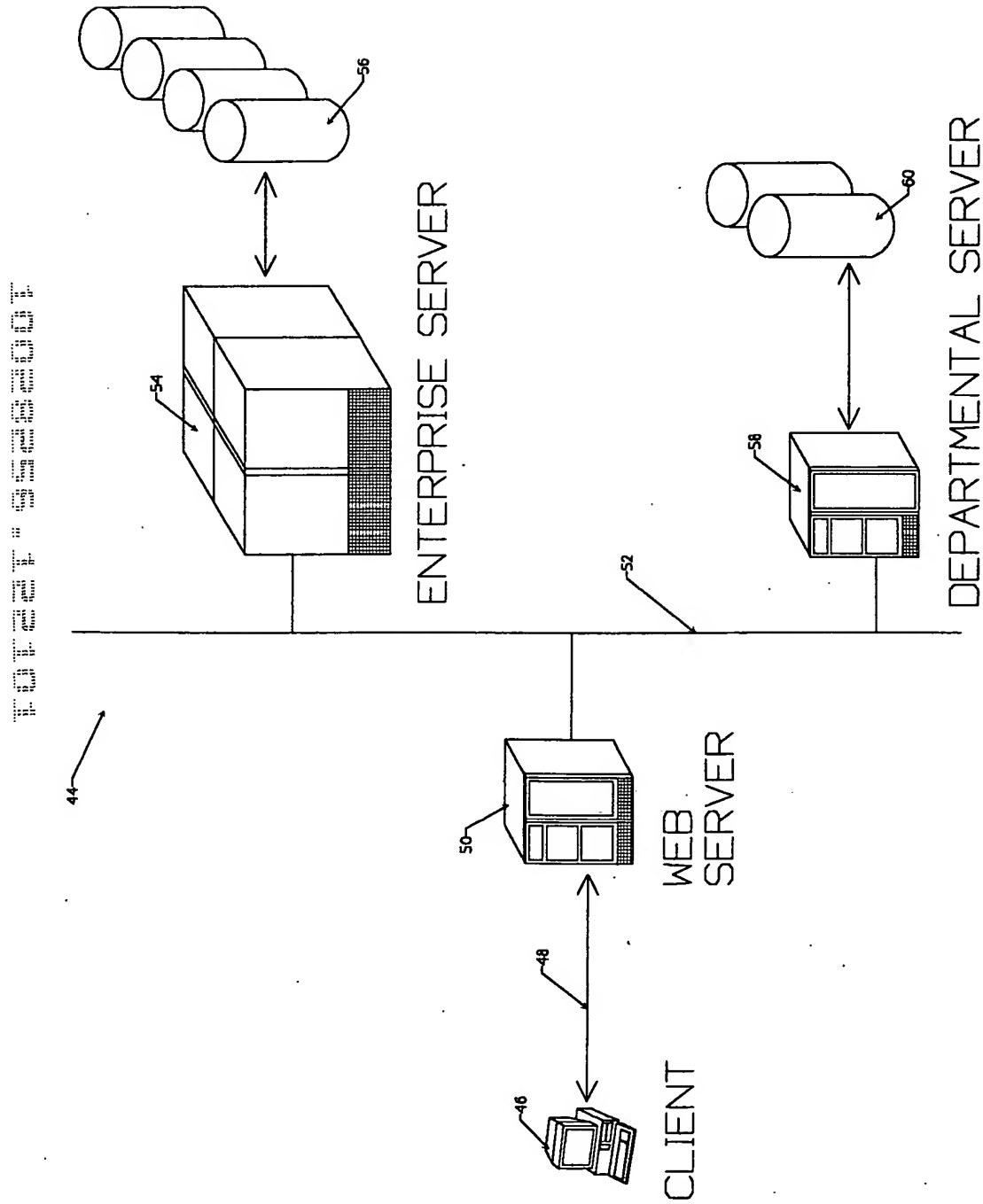


FIG. 3

FIG. 4

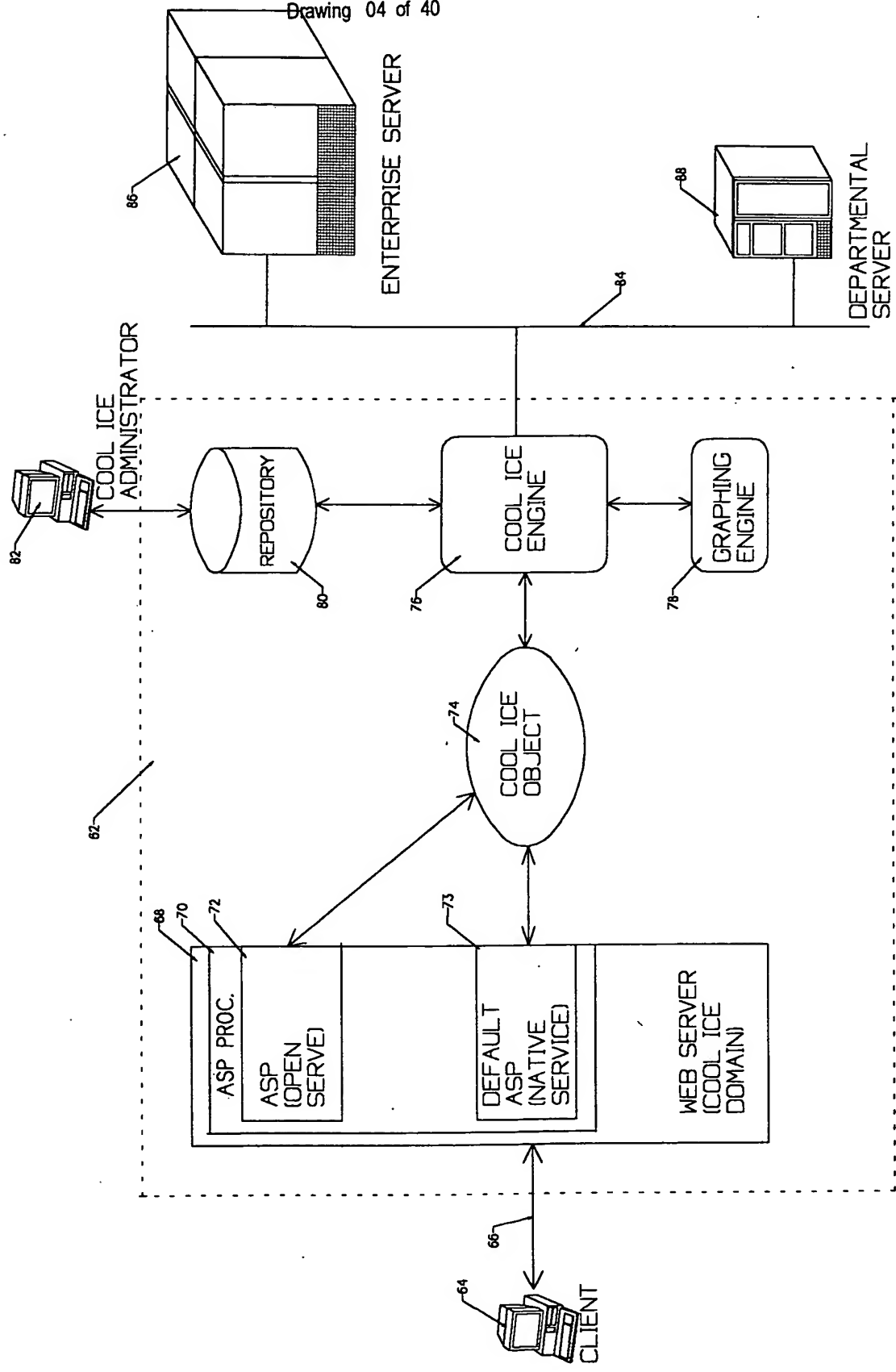


FIG. 4

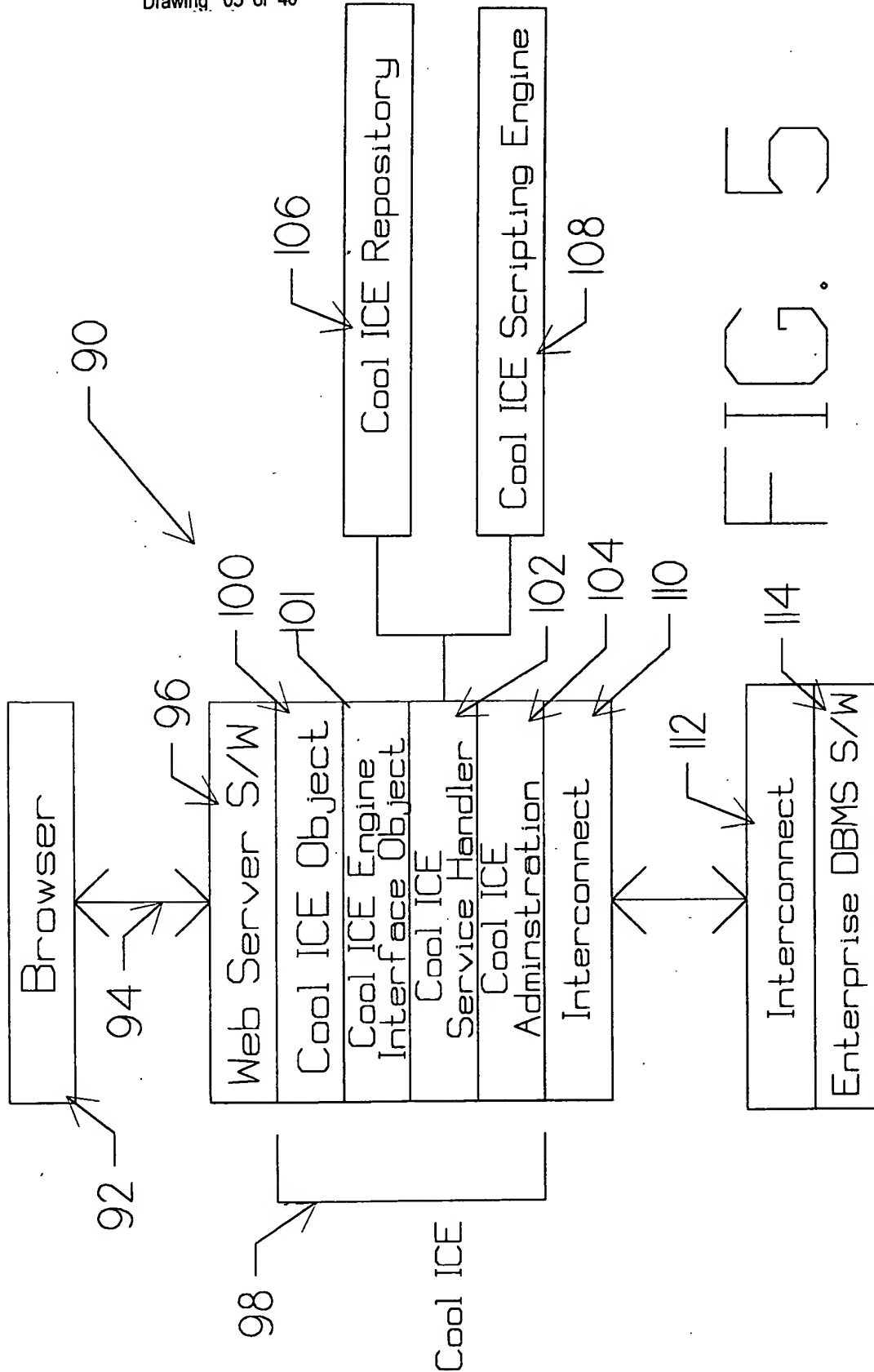


FIG. 5

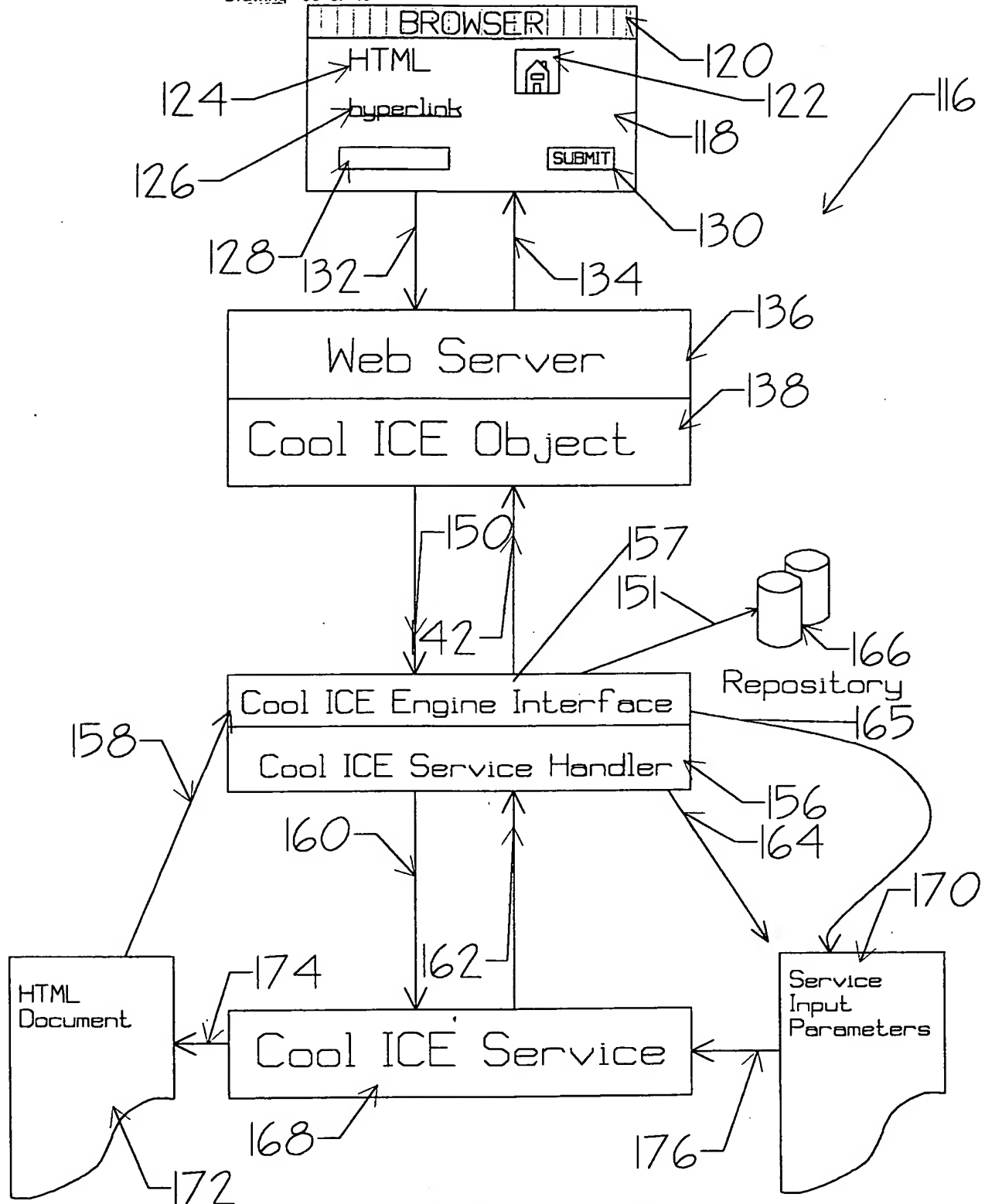


FIG. 6

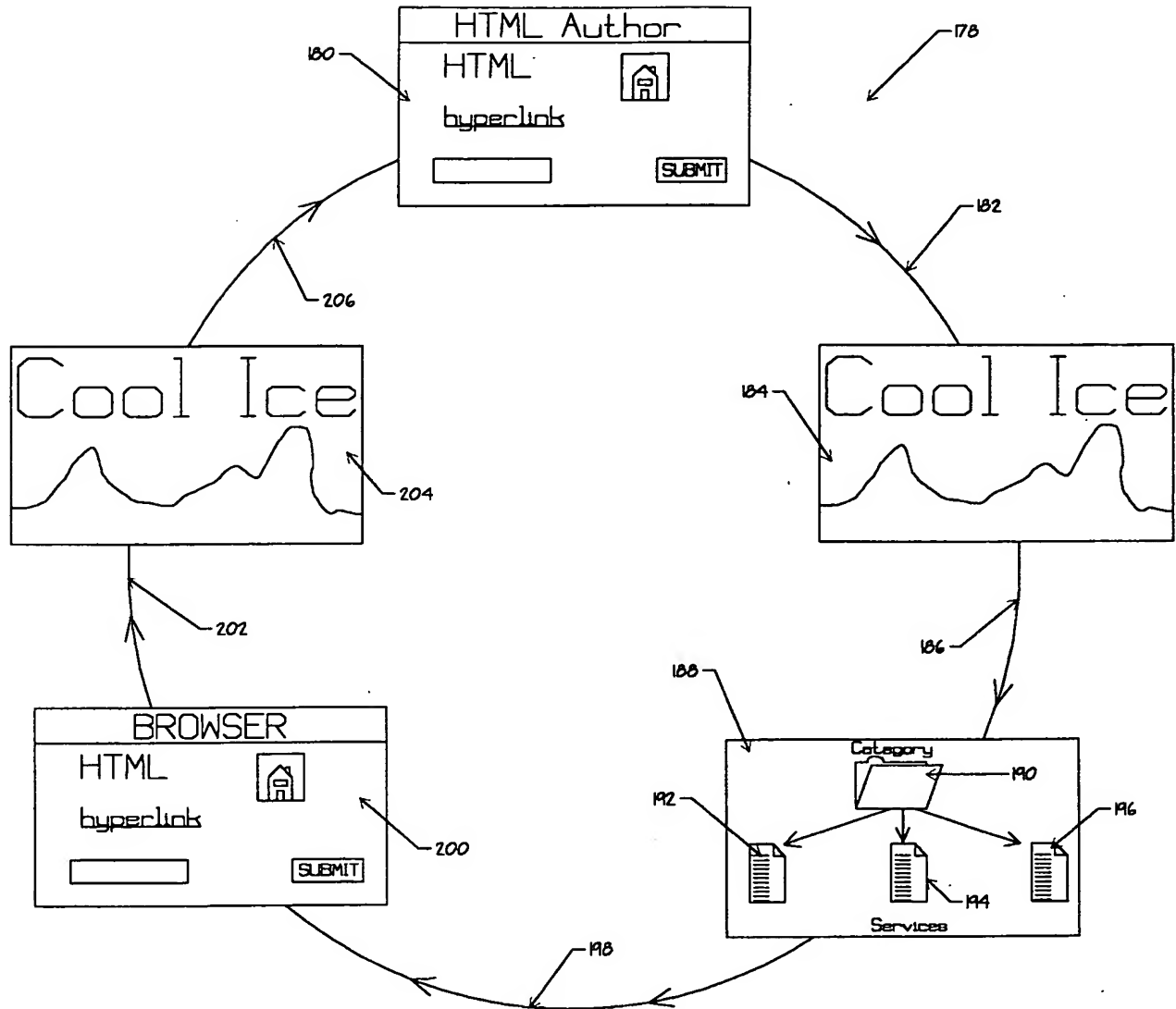


FIG. 7

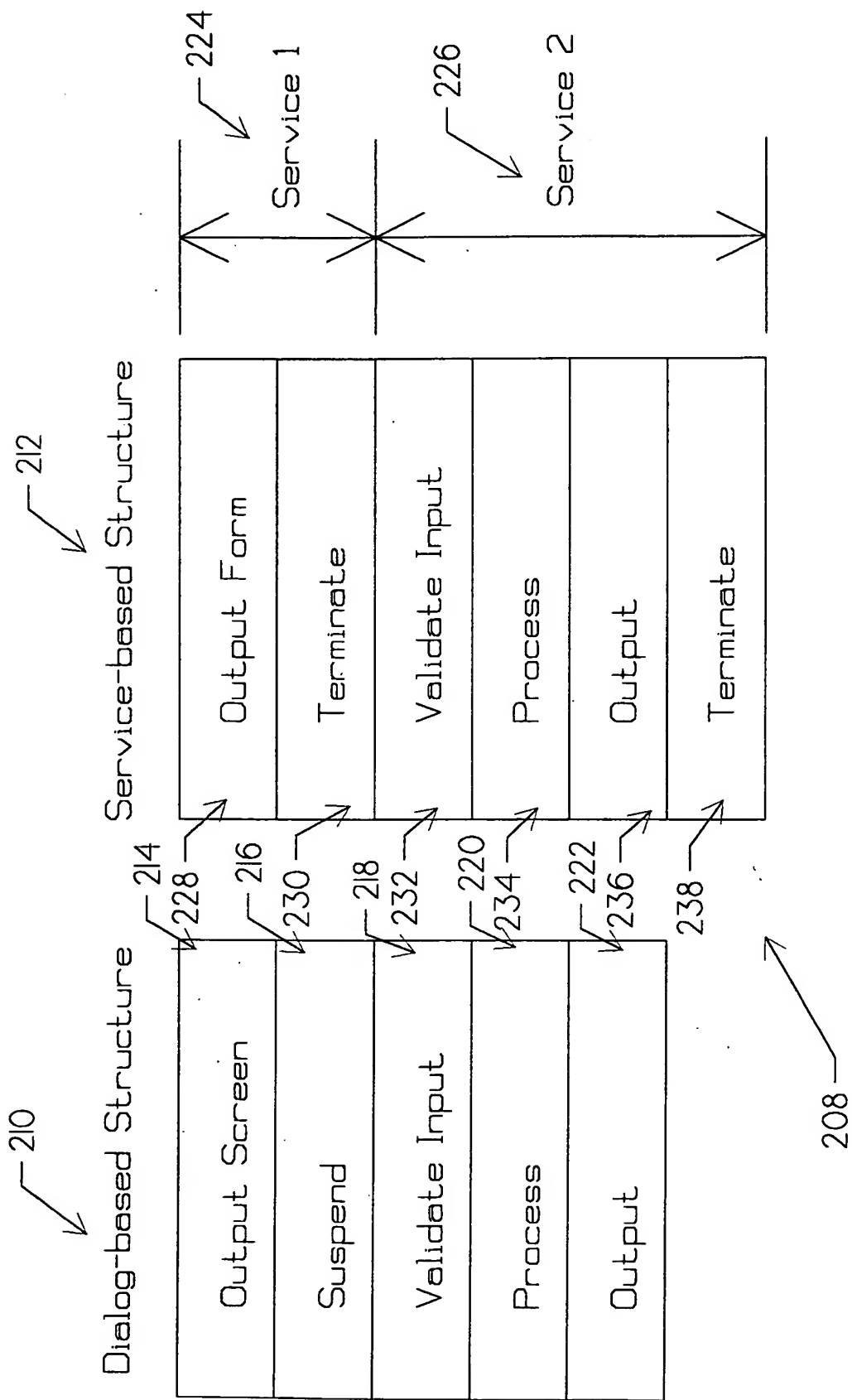


FIG. 8

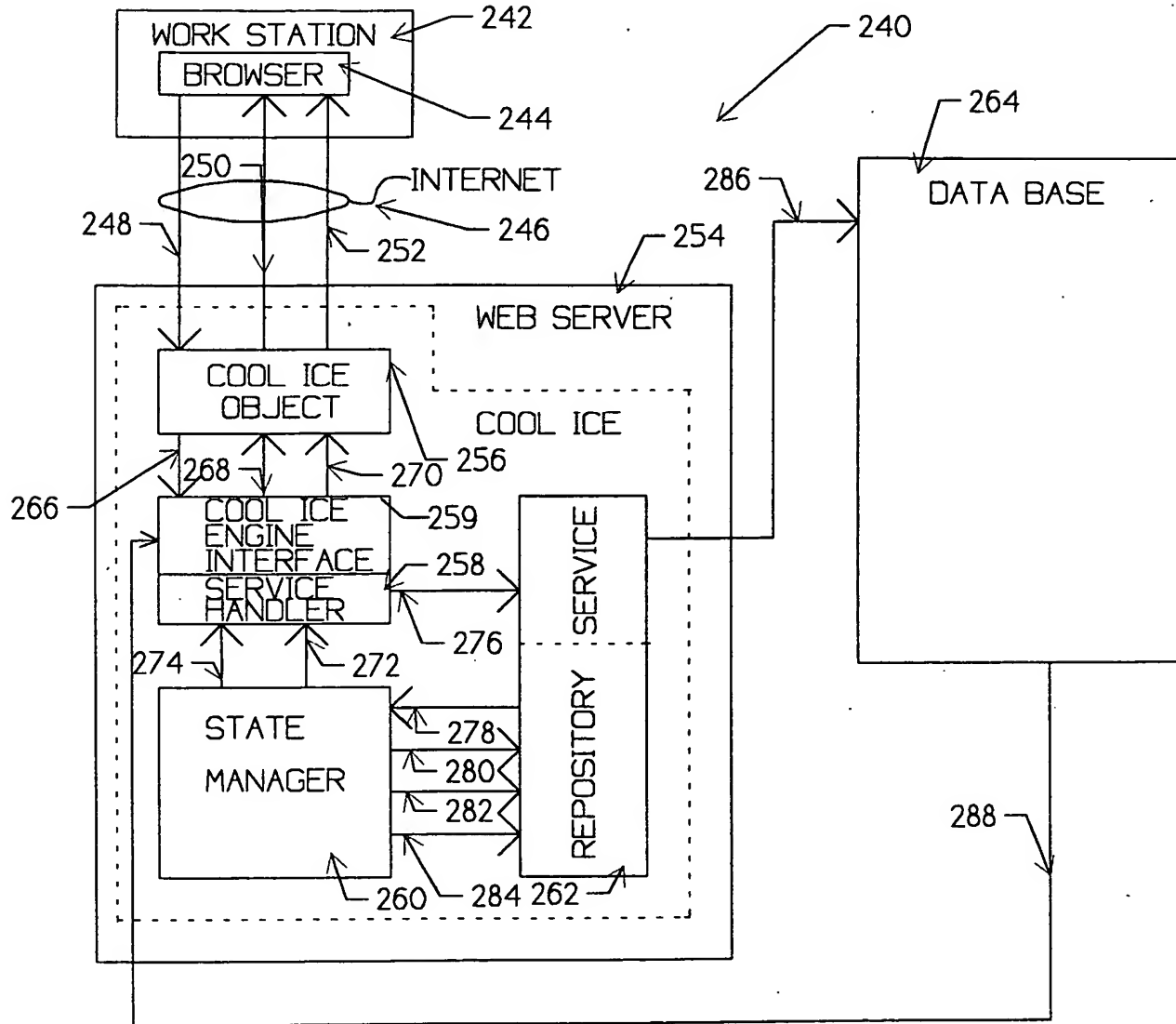


FIG. 9

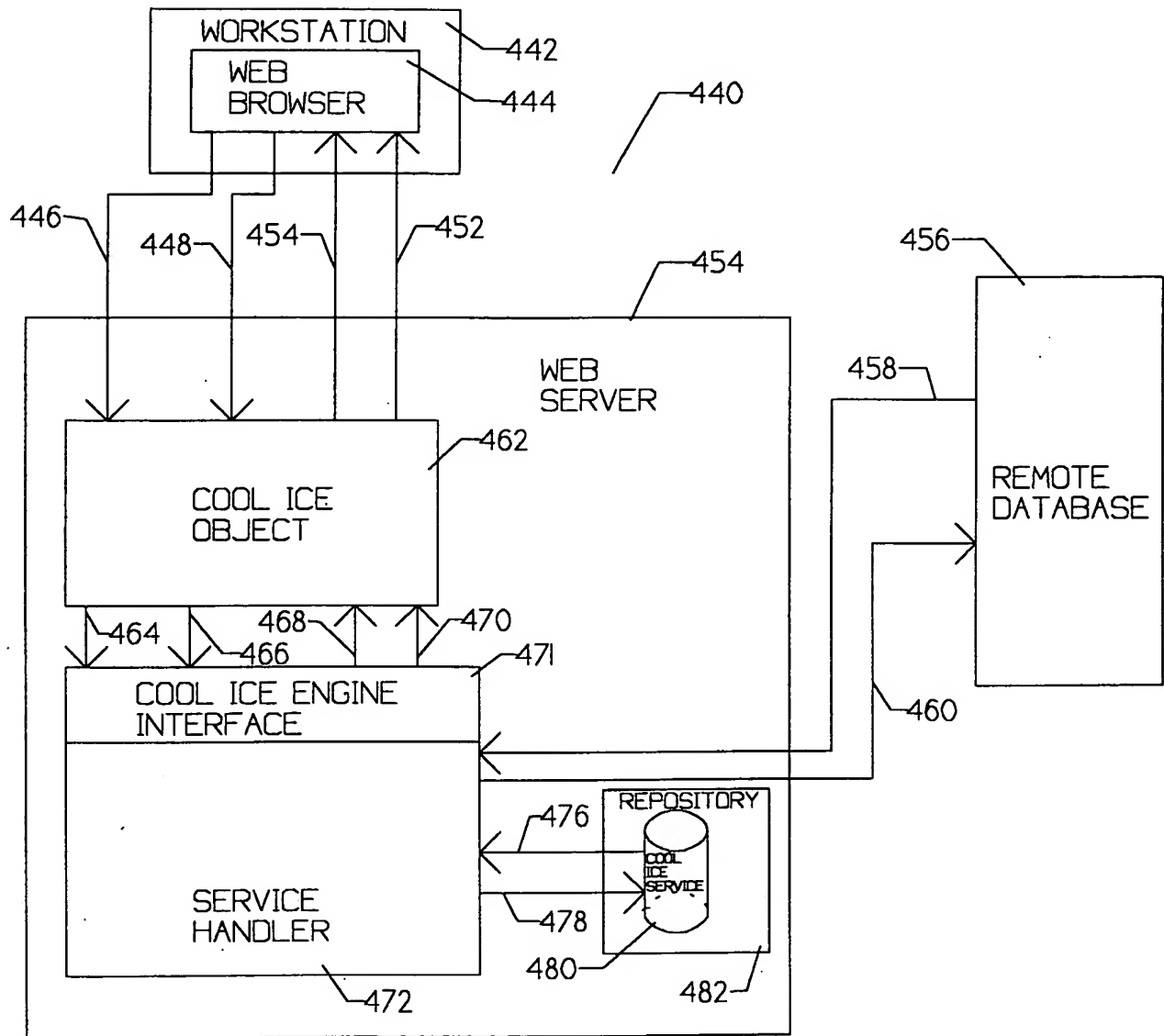


FIG. 10

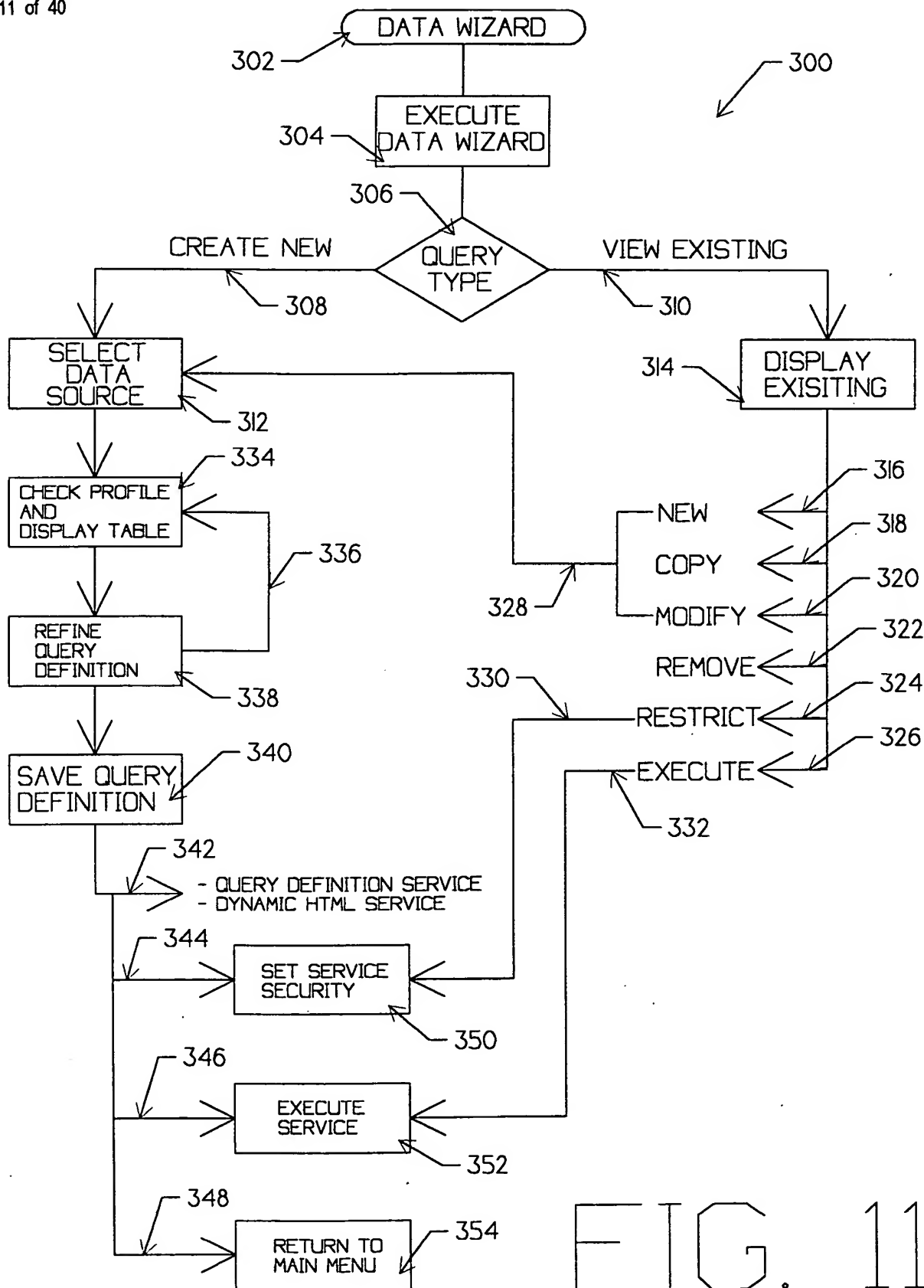


FIG. 11

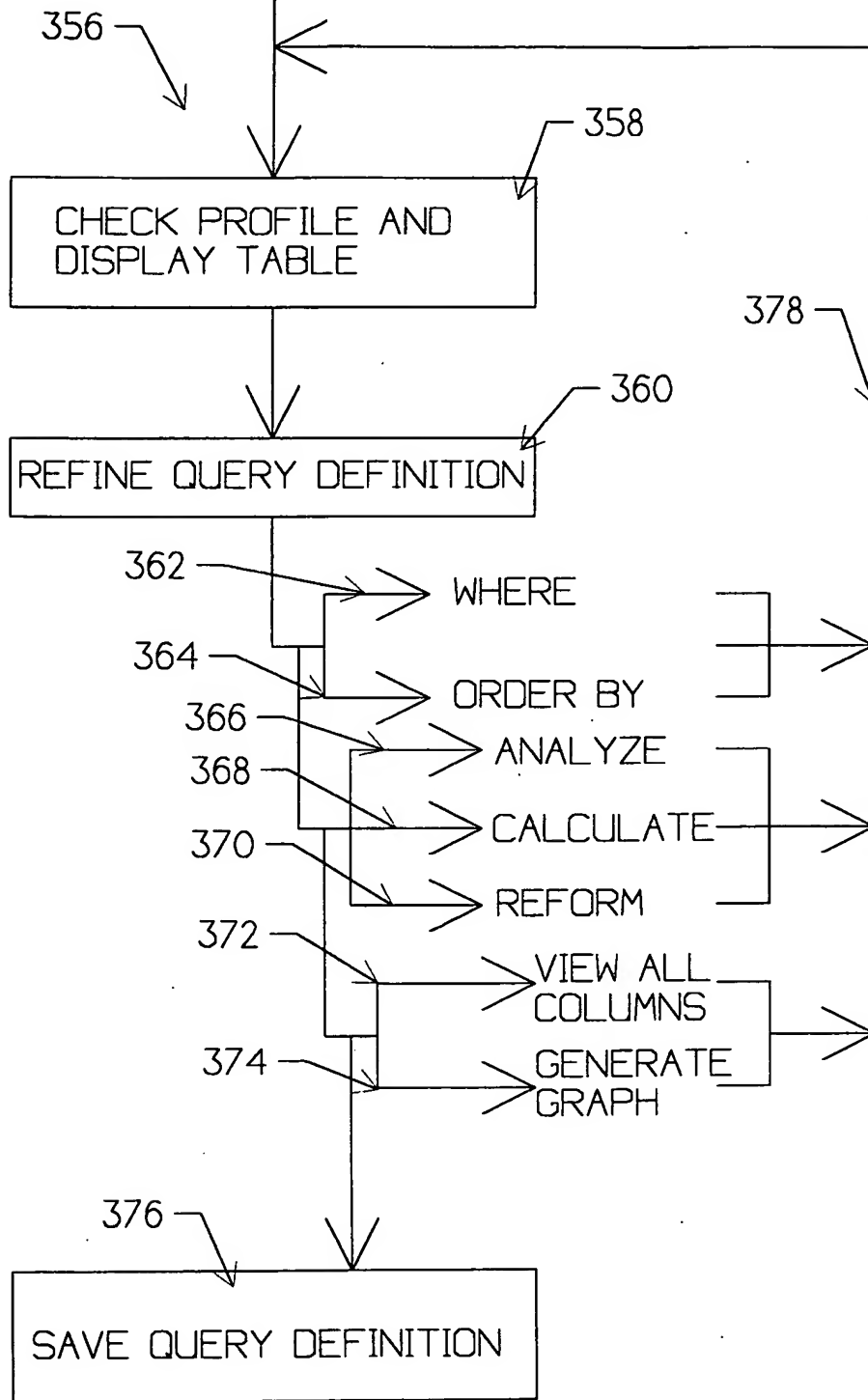


FIG. 12

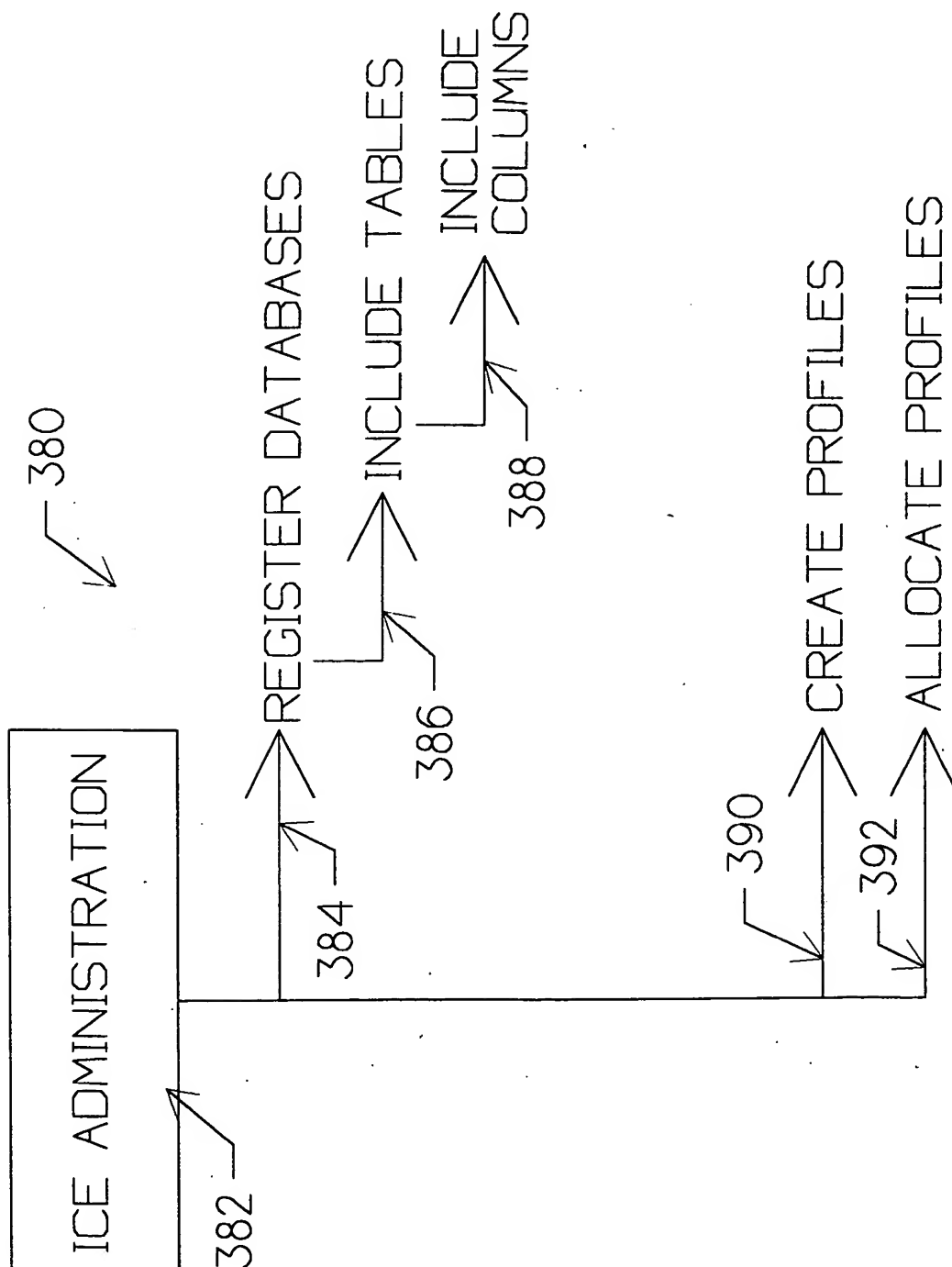


FIG. 13

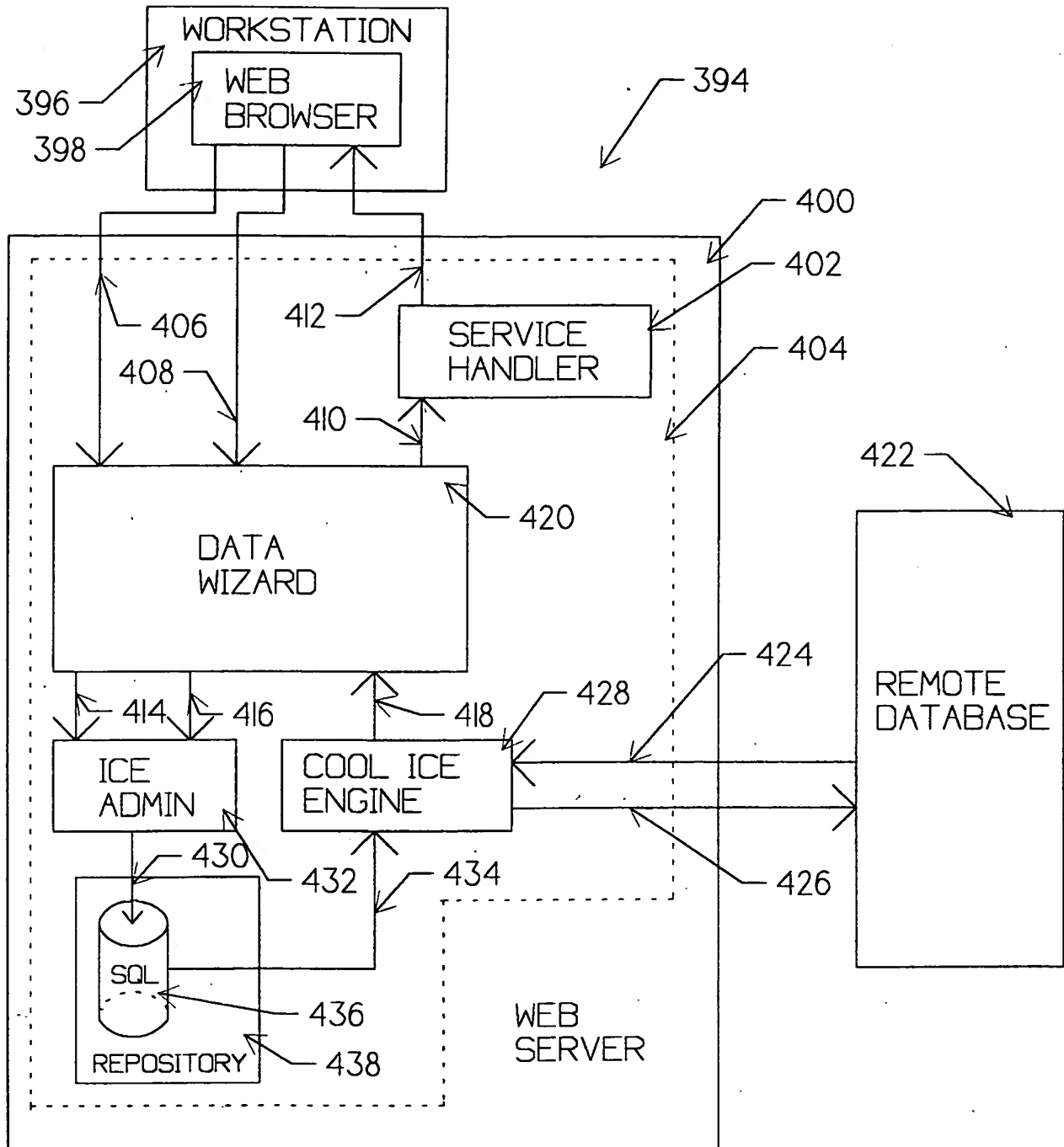


FIG. 14

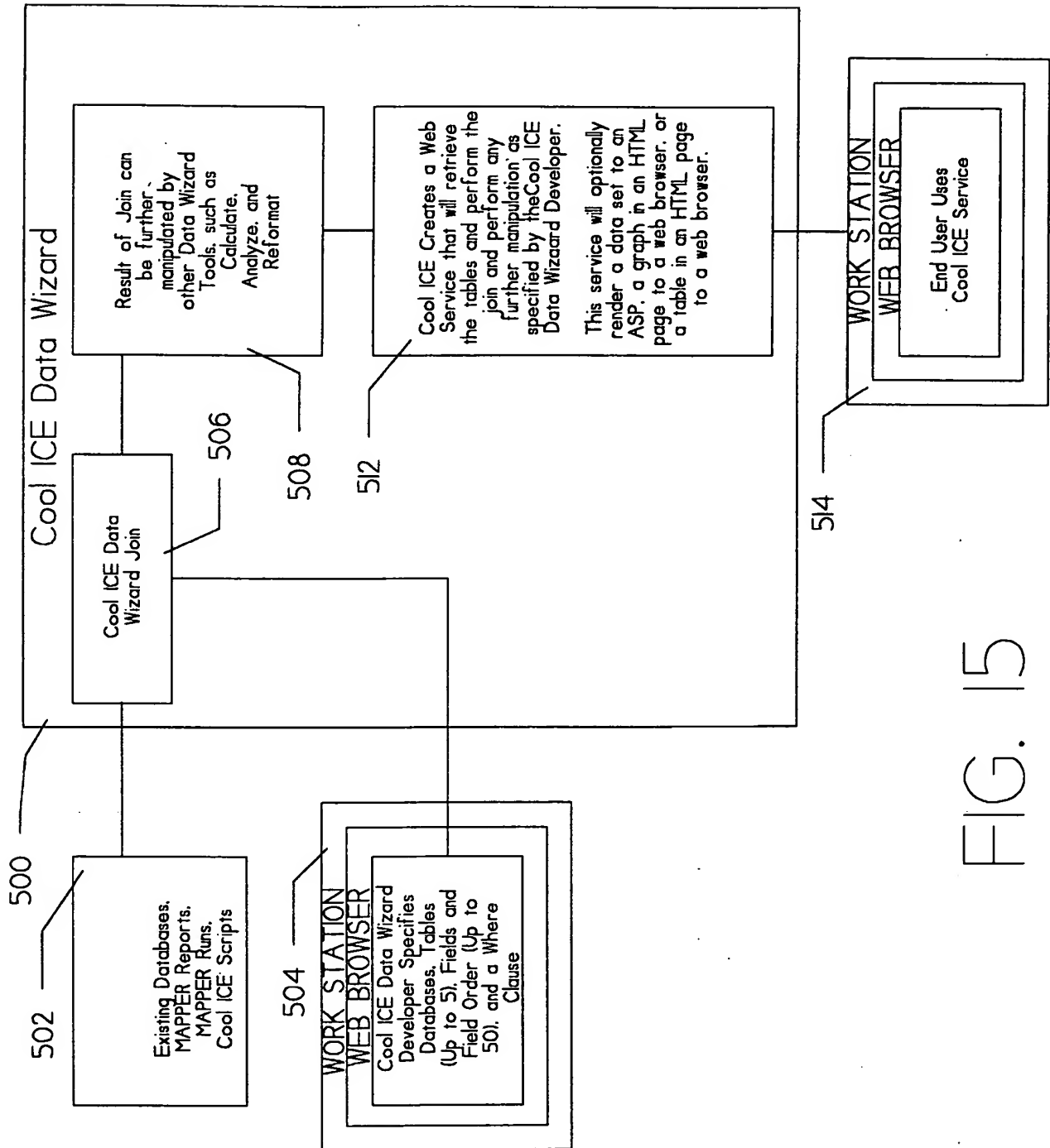
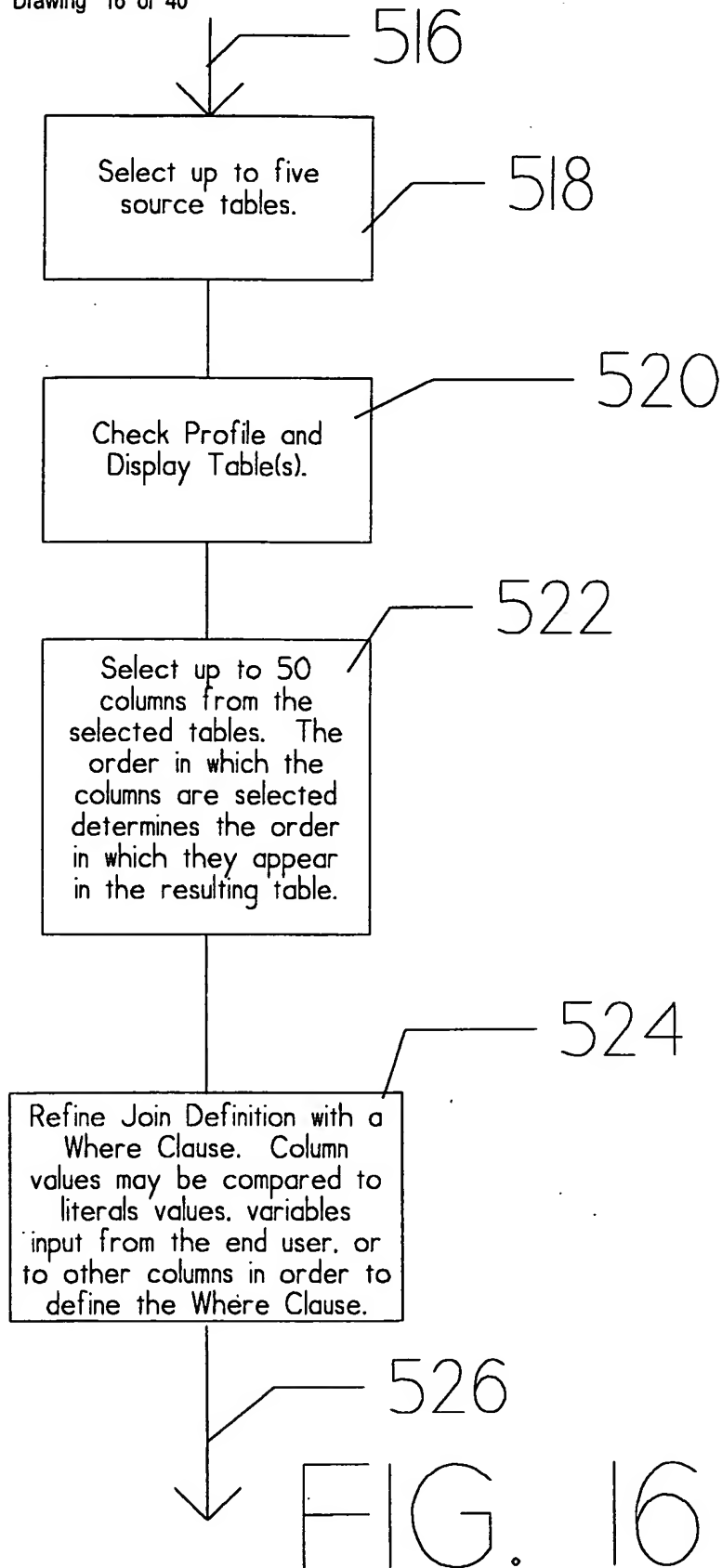


FIG. 15



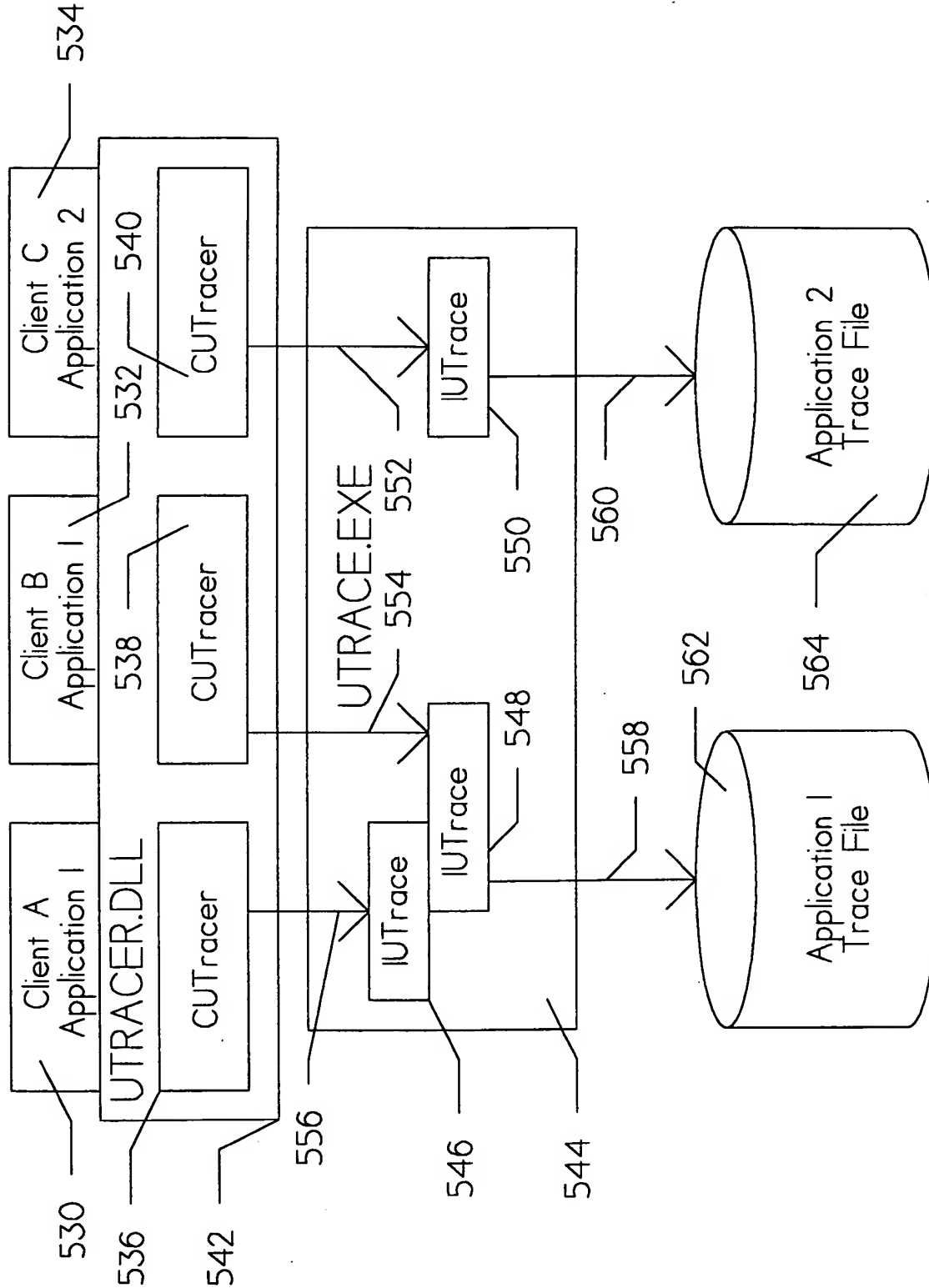


FIG. 17

FIG. 18

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application 565

ENABLETRACE	-- DWORD value indicating a Boolean (1=trace, 0=no trace).
MAXENTRIES	-- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS	-- DWORD value indicating message formatting flags.
POLICYFLAGS	-- DWORD value indicating trace policy flags set for the application.
TRACELEVEL	-- DWORD value indicating a trace level. 0 = no trace.
TRACEPATH	-- String value indicating the directory path for the trace files.
REGTRACE	-- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.
COMPONENT	-- A subkey for a specific component of the application.
POLICYFLAGS	-- Value indicating component level trace policy flags
TRACELEVEL	-- DWORD Value indicating a trace level. 0 = no trace.
VERSIONTRACE	-- String value specifying executable component name for version information tracing.

FIG. 18

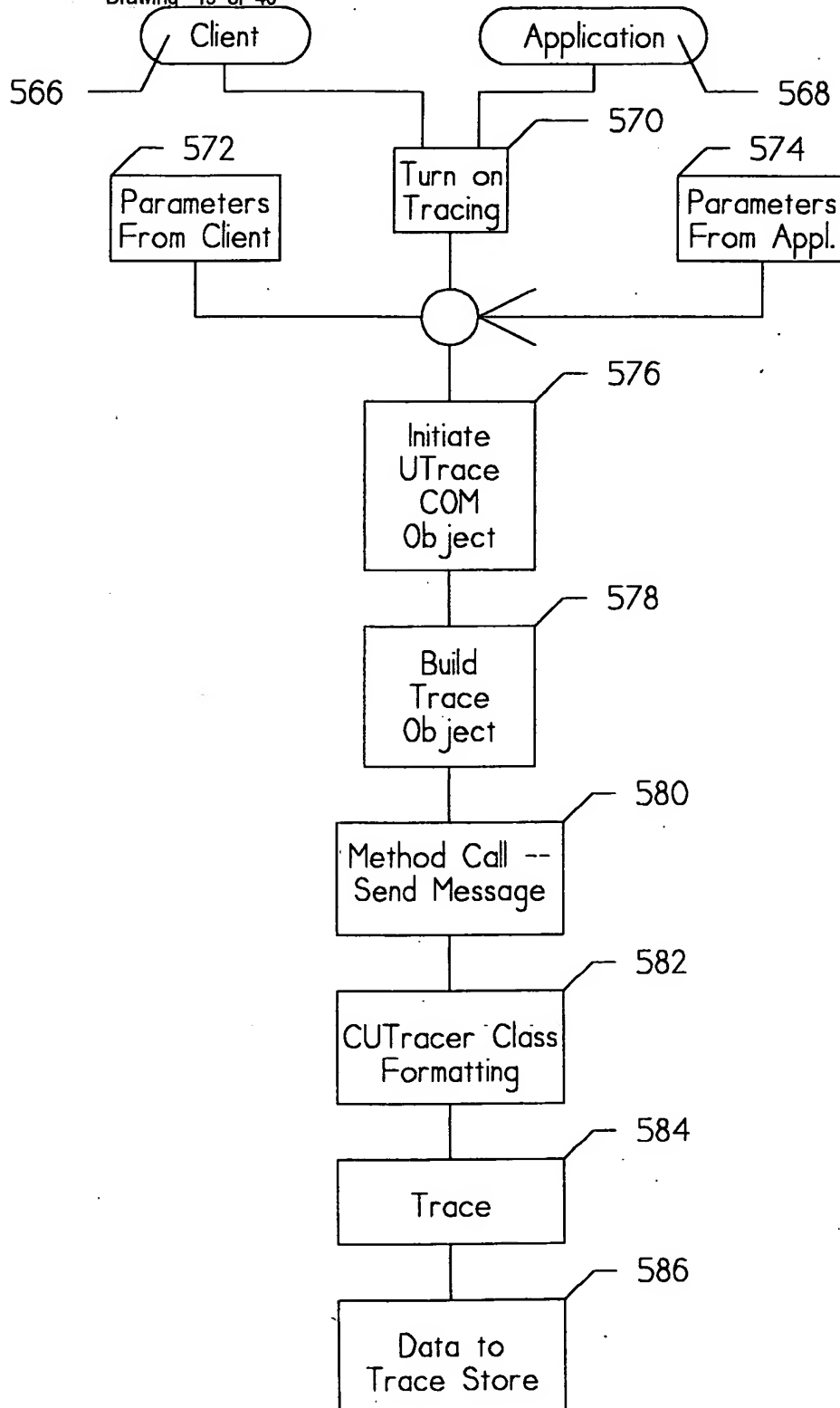


FIG. 19

```
#define CI_TRACE_VERSION      0x1
#define CI_TRACE_ERROR        0x2
#define CI_TRACE_INTERFACE    0x4
#define CI_TRACE_FLOW         0x8
#define CI_TRACE_DETAIL       0x10
```

FIG. 20A

```
if (m_trace.Active(CI_TRACE_DETAIL))
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

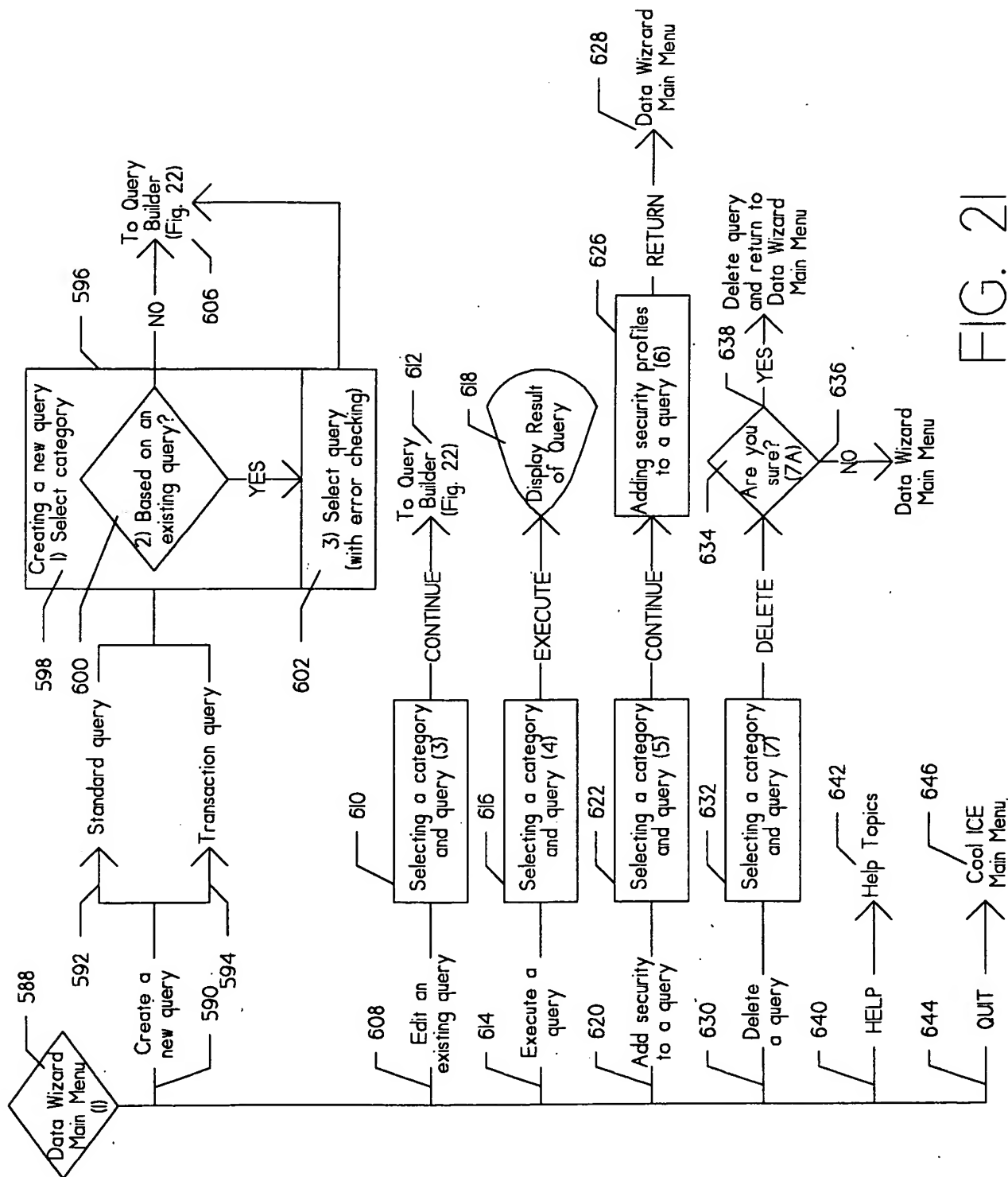


FIG. 21

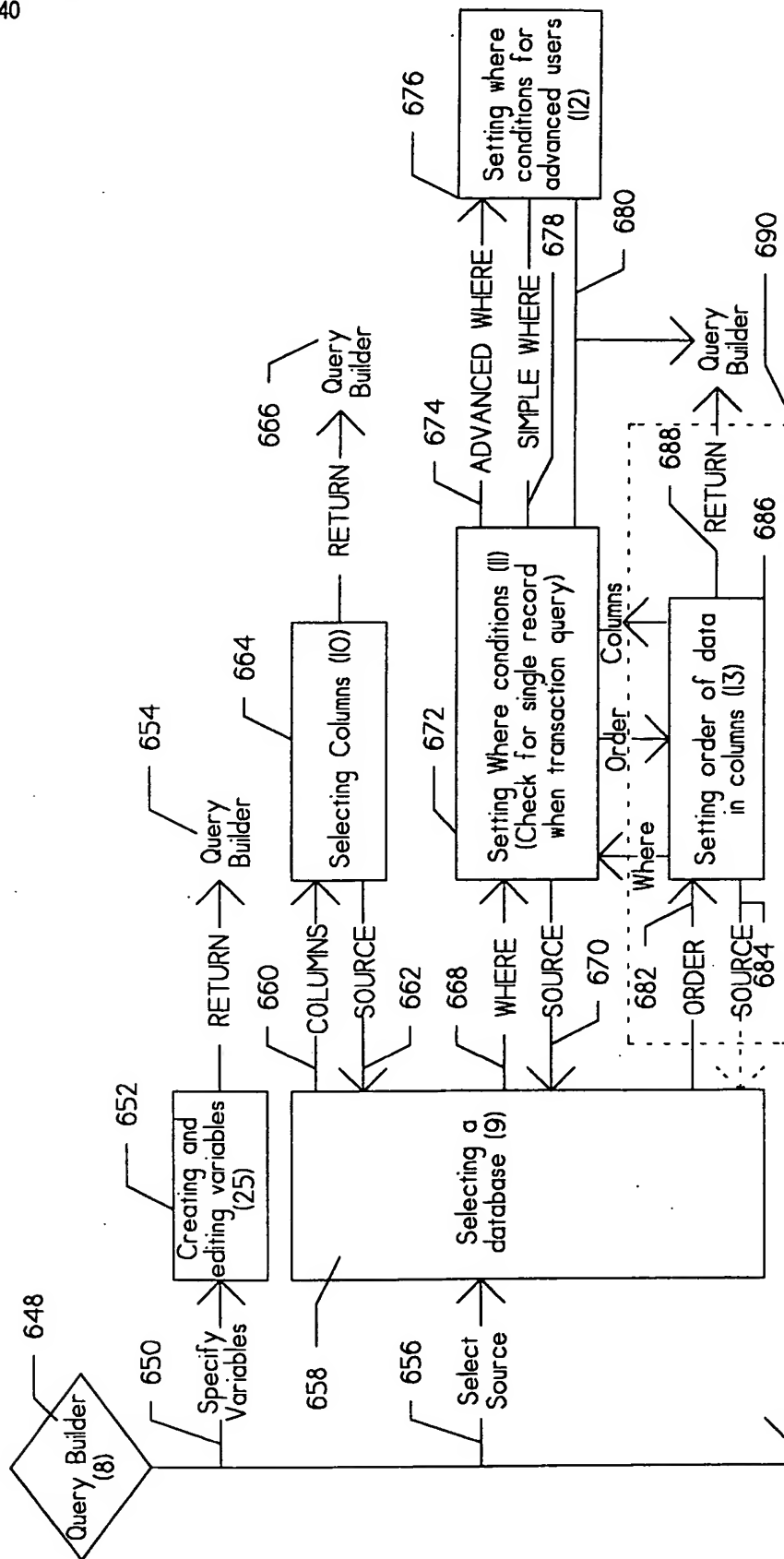


FIG. 22A

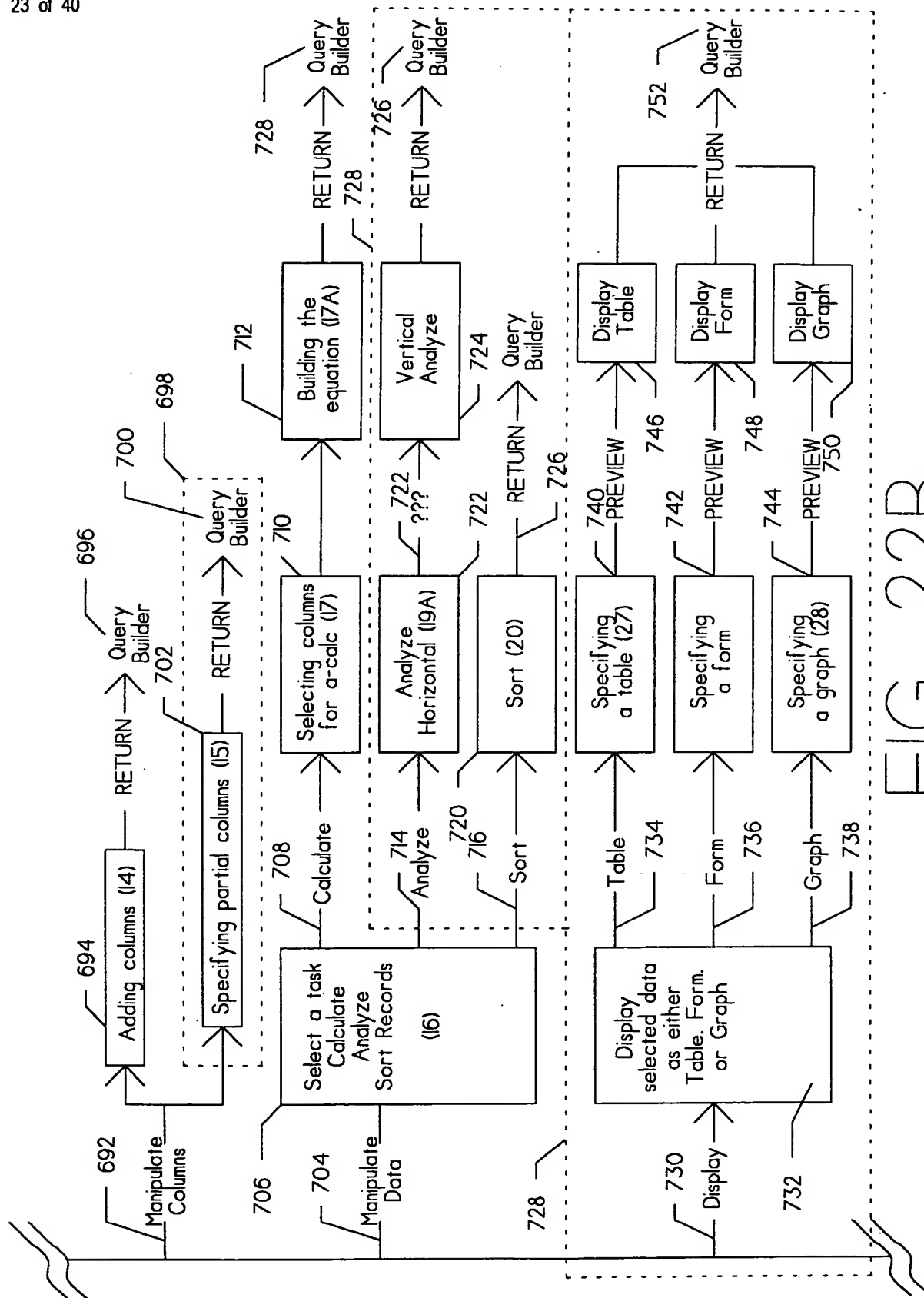
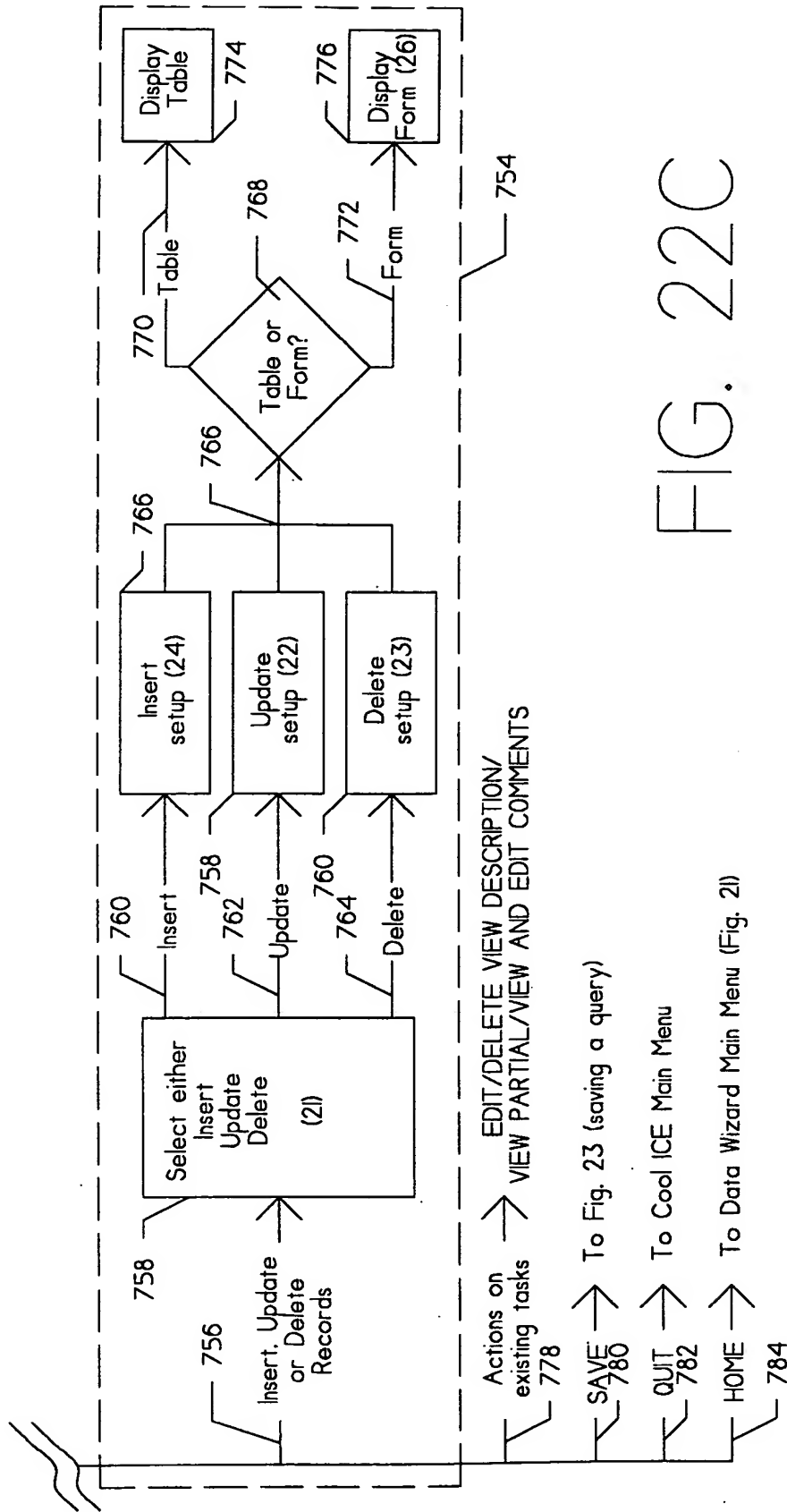
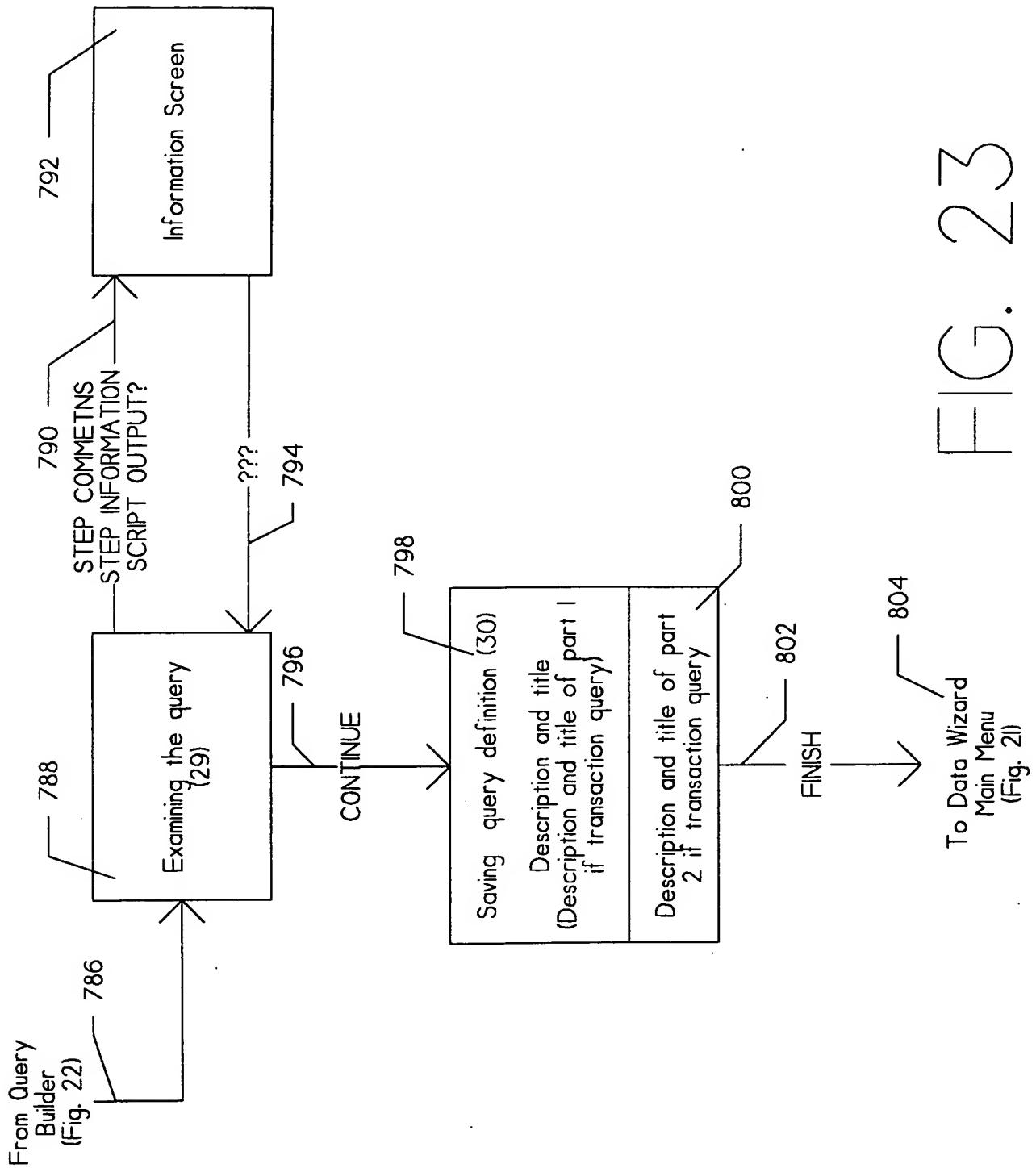


FIG. 22B





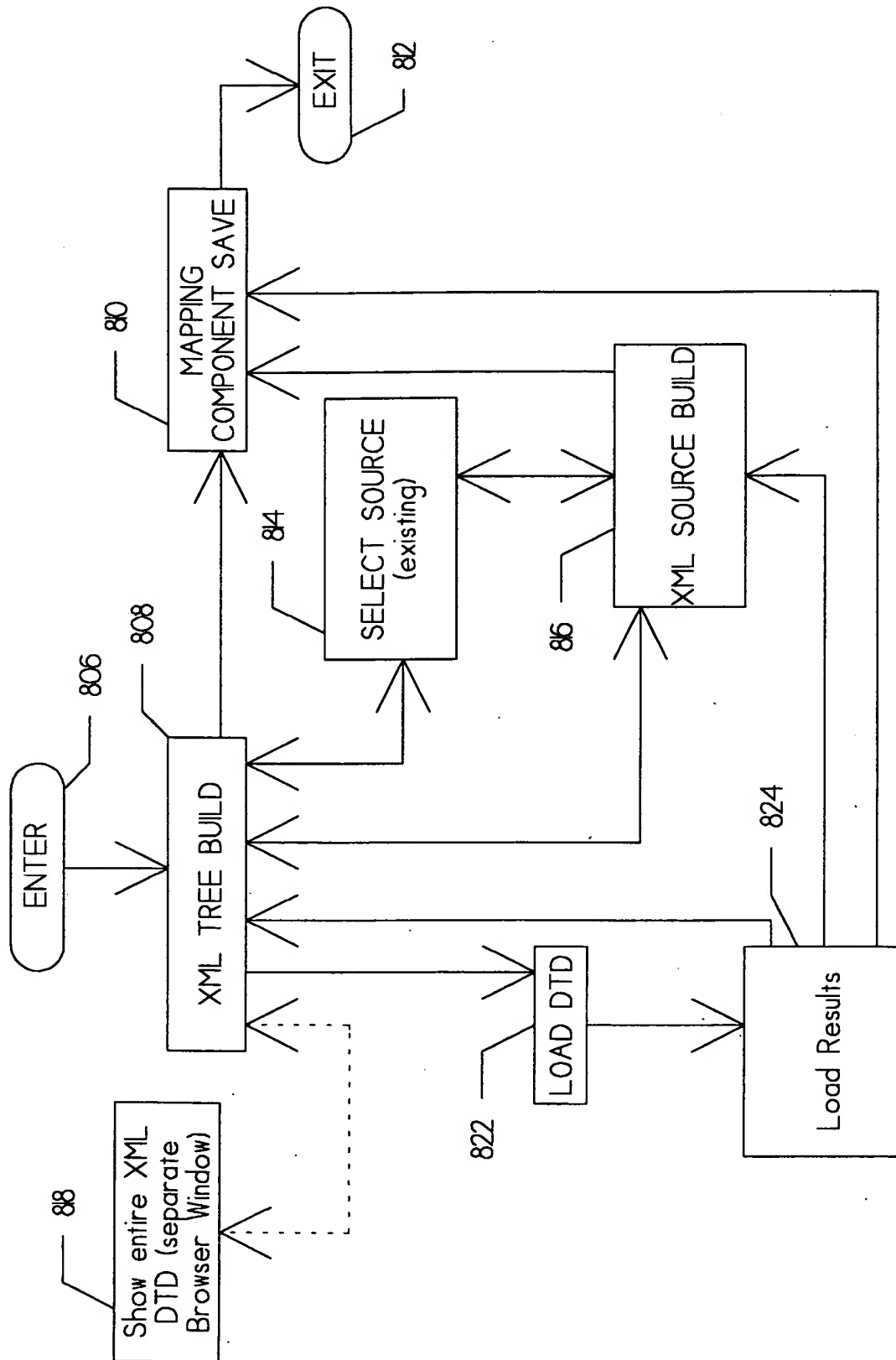


FIG. 24

XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

838 Newspaper
840 Article
842 Author
844 Editor
846 Date
848 Edition
850 Headline
852 Byline
854 Lead
Body
Notes

o
o
o
o
o
o
o
o
o
o
o

o Tables
o Article
o Article
o Author
o Editor
o Date
o Edition
o Headline
o Byline
o Lead
o Body
o Notes

Mapping Type Name Conversion
Open M 868 Capital M 864
Table Mapping Complete M 866

Element Properties
Item Type Element Form
Sequence M 860 Rpt Rpt 861
Mapping 860
Row Iterator M 862
Value 863

Actions 865
Clear Mapping
Add Sibling above
Add Sibling below
Add Childred
Add Attributes
Delete Branch
Compact View
Show Representation

826

FIG. 26

Patent Application

XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Home Quit Cancel Help

XML MAPPING ELEMENTS 871

UNISYS

872 [Redisplay] 874 [Sources] 873 [Save] 876 [Upload DTD]

ELEMENTS 858

Root

Variables 856

Tables

CONTROLS

Mapping Type

Open

Name Conversion

Capital 864

Table Mapping

Complete 866

Element Properties

Item Type

Sequence

Mapping

Row Iterator

Value

Element Form

Rpt Rpt 860

862 863

870

FIG. 27

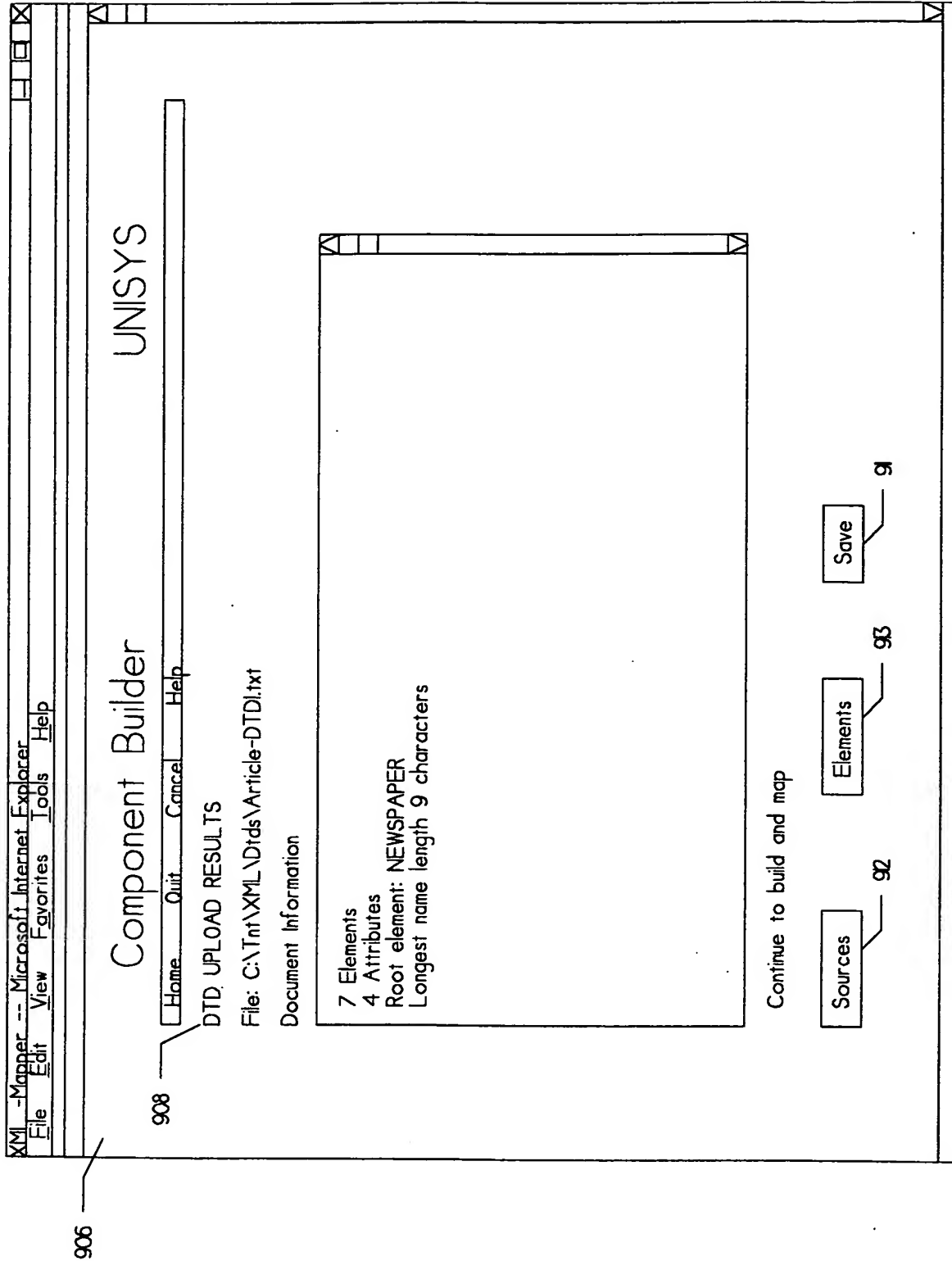


FIG. 28

DTD EXAMPLE 98

<!DOCTYPE ShoeData [

```
<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<!ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<!ELEMENT Type (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>
```

FIG. 30

XML INPUT DOCUMENT EXAMPLE

920

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeData>
  <From>Roseville Store</From>
  <TableType>Low Inventory Count</TableType>
  <Inventory Date>"2000-12-05" Time="11:51">
    <Row>
      <ItemNr Quantity="0">32335</ItemNr>
      <Type>Tennis</Type>
      <Gender>Mens</Gender>
      <Size>6</Size>
      <Color>White/Zen Grey/New Spruce</Color>
      <Unitcost>25.00</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="0">35410</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>5</Size>
      <Color>White/Zen Grey/Neptune Blue</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="0">35411</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>6</Size>
      <Color>White/Zen Grey/Neptune Blue</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="2">35420</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>5</Size>
      <Color>White/Chlorine Blue/Hot Lime</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="1">37421</ItemNr>
      <Type>Golf</Type>
      <Gender>Womens</Gender>
      <Size>8</Size>
      <Color>White/Fluorescent Pink</Color>
      <Unitcost>35.00</Unitcost>
    </Row>
  </Inventory>
</ShoeData>
  <Color>White/Black-Hot Lime. Neo Teak</Color>
  <Unitcost>40.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="0">32474</ItemNr>
  <Type>Tennis</Type>
  <Gender>Womens</Gender>
  <Size>8</Size>
  <Color>White/Light Marine-Ultramarine</Color>
  <Unitcost>25.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="1">35310</ItemNr>
  <Type>Running</Type>
  <Gender>Mens</Gender>
  <Size>6</Size>
```

FIG. 31

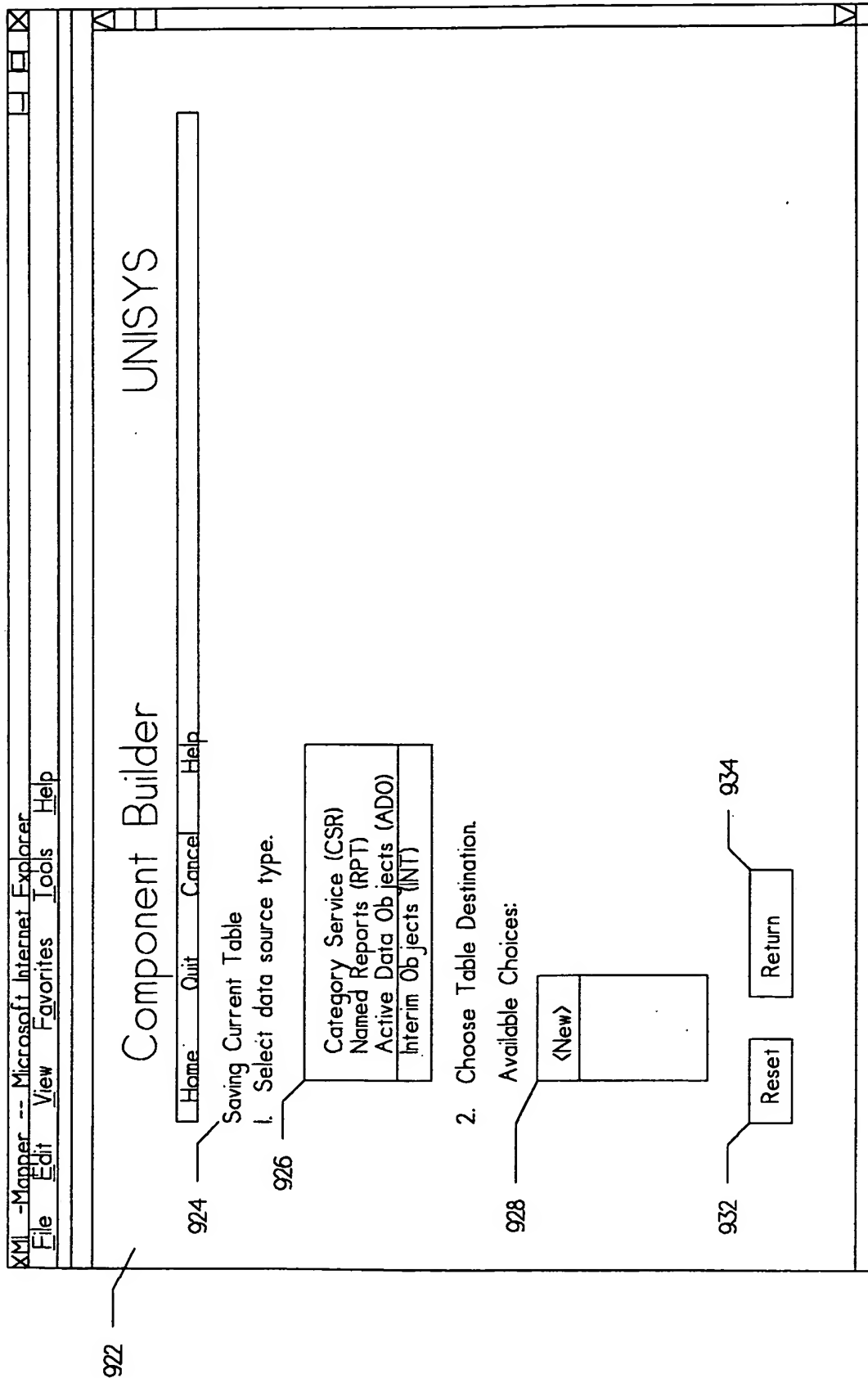


FIG. 32

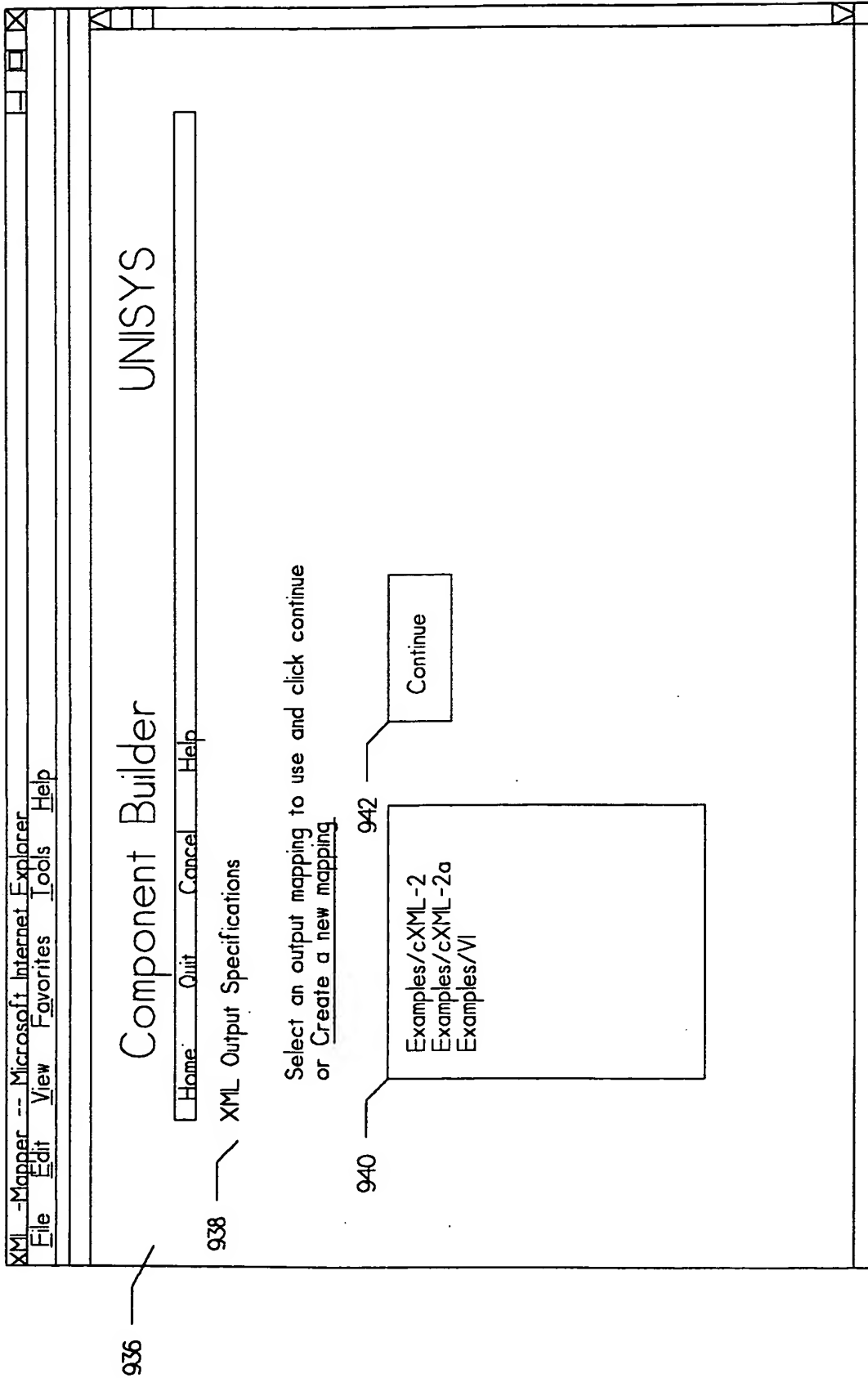


FIG. 33

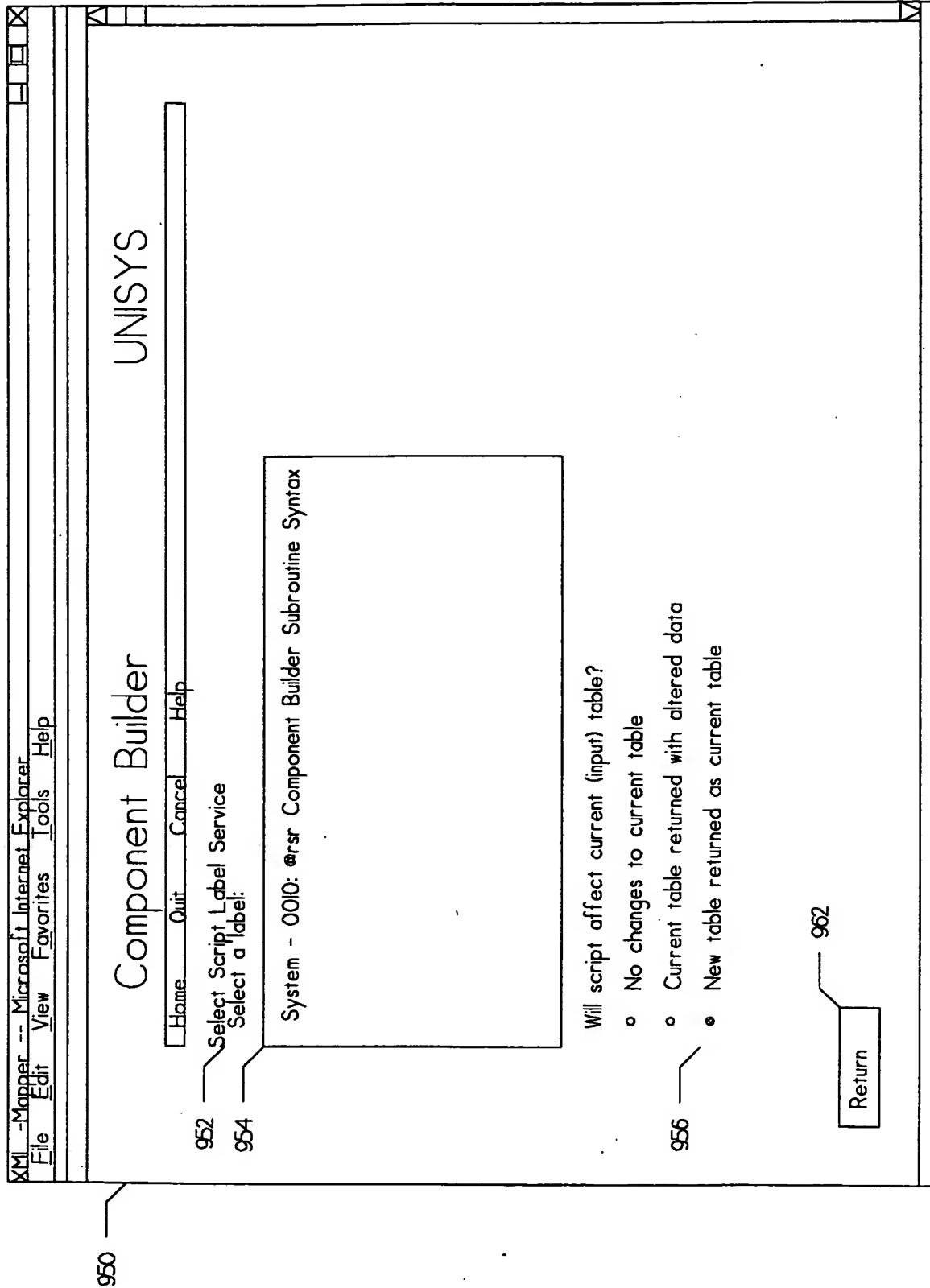


FIG. 34

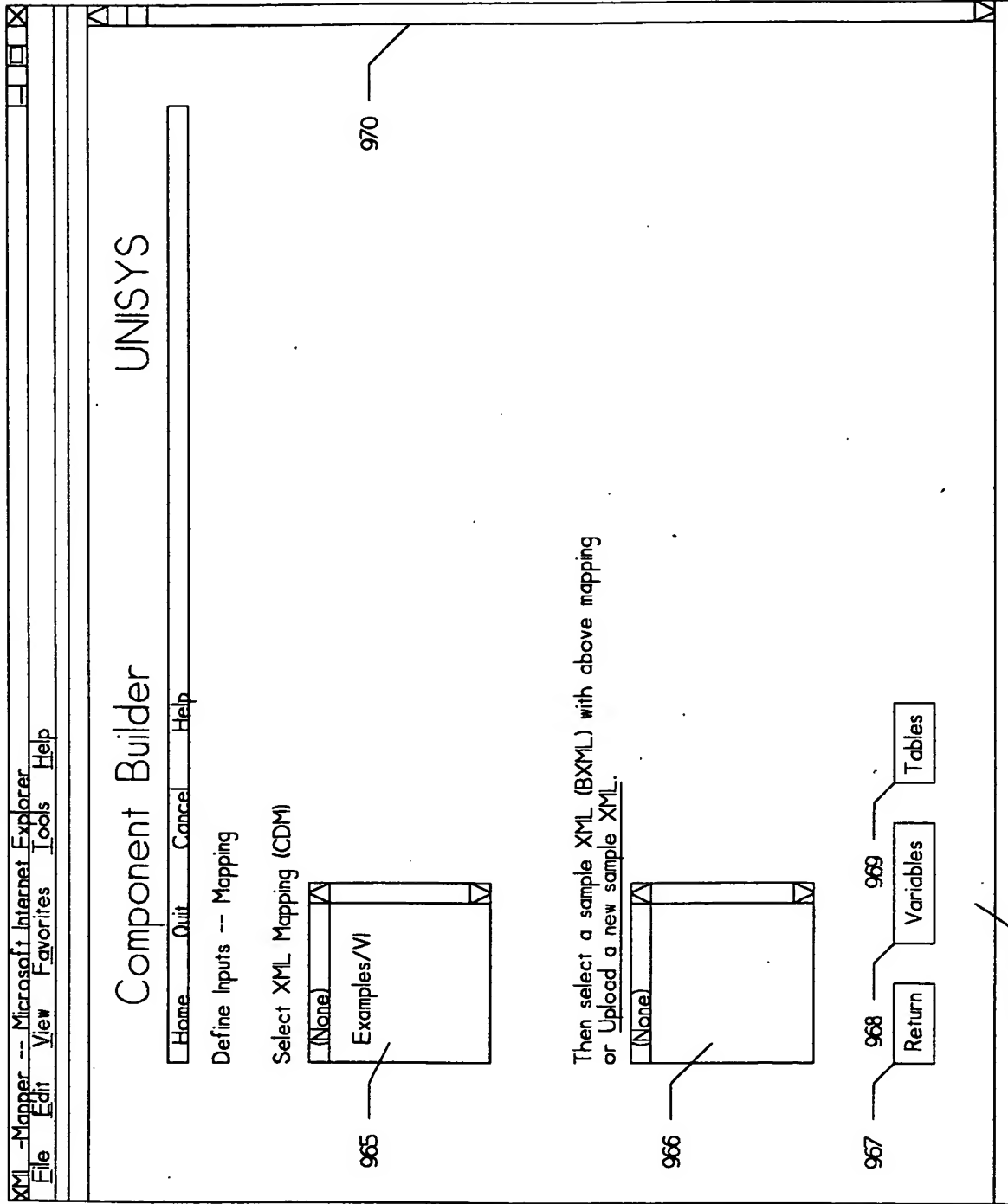


FIG. 35

XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

Home Quit Cancel Help

Define Inputs -- Variables

Current Variables

973

974

Delete

971

Return

969

Input Mappings

Tables

972

UNISYS

970

Add a New Variable

Name: 975

Size: 976

Type: 977

Default Value: 978

979

Comment:

980

Clear

Reset

981

FIG. 36

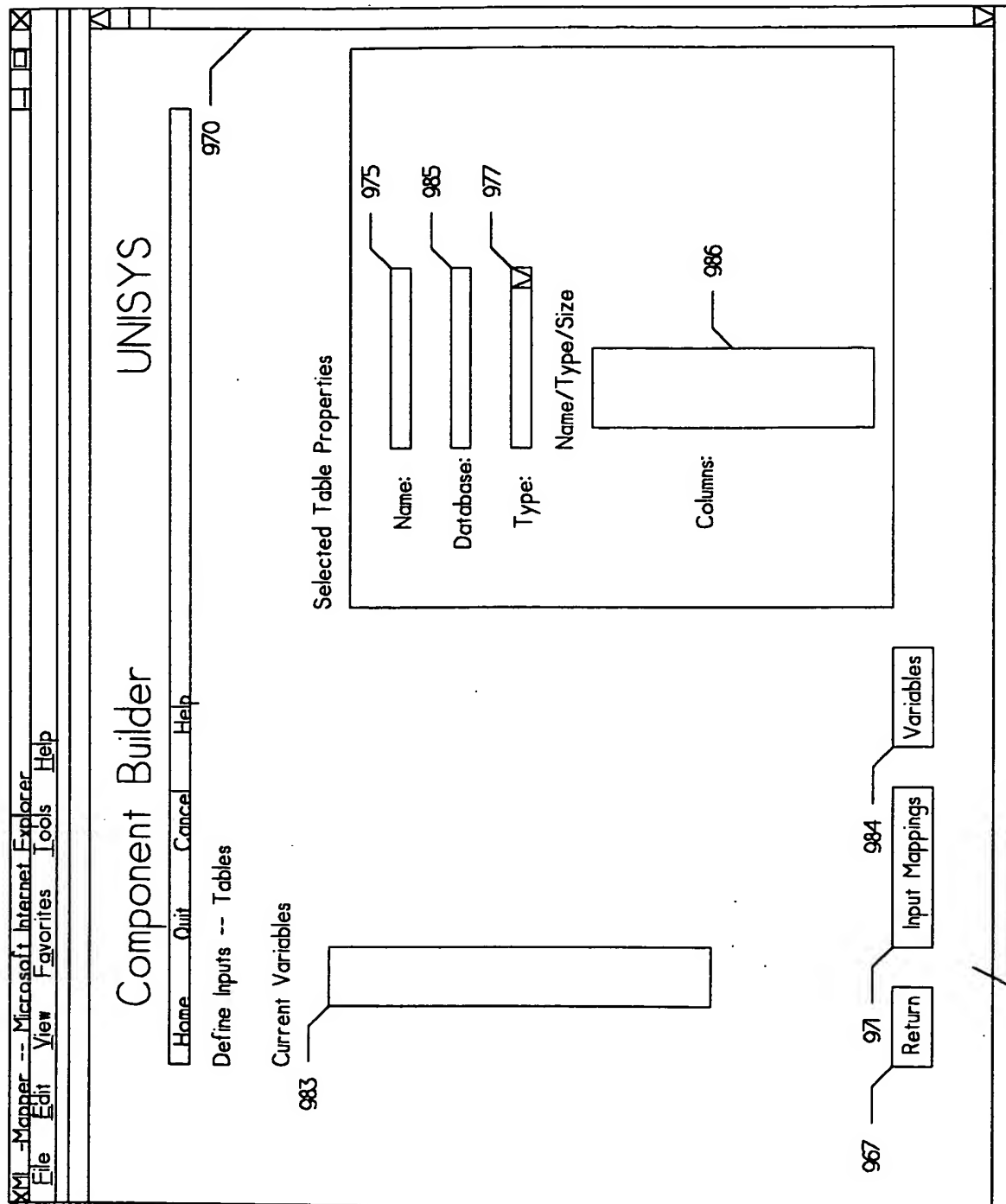


FIG. 37

XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

UNISYS

Home Quit Cancel Help

Define Inputs -- Upload BXML

988 Input XML File Name Browse

989 Input Category and Service to Save To

990

967 Return

970

987

FIG. 38